

21 and 31 Hay Conditioners



JOHN DEERE

OPERATORS MANUAL

21 and 31
Hay Conditioners

OMH90845 Issue K3 English

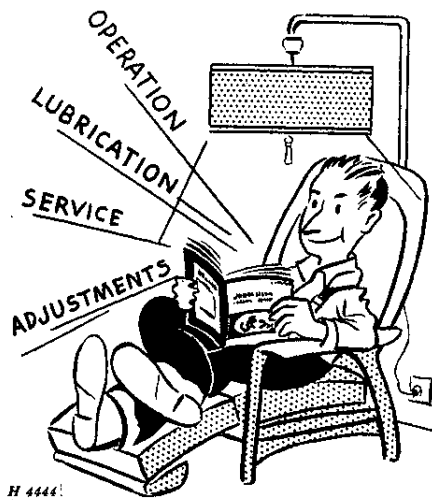
OMH90845 Issue K3

LITHO IN U.S.A.
ENGLISH



To the purchaser

This operator's manual has been prepared to provide information on operation, lubrication, adjustments and service. Follow the recommendations in this manual and you will obtain maximum service and satisfaction from your John Deere 21 or 31 Hay Conditioner.



STUDY THIS MANUAL CAREFULLY, KEEP IT HANDY, IN A SAFE PLACE, FOR FUTURE REFERENCE.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation and service of this implement. He has trained mechanics who are kept informed on the best John Deere service methods and will render you prompt service if needed.

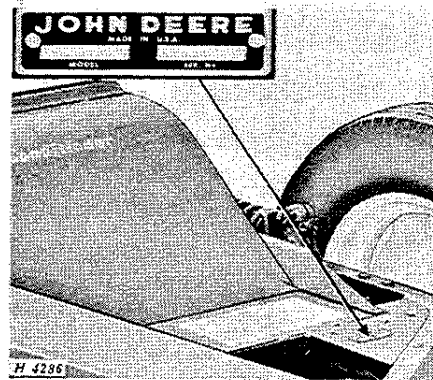
Use genuine John Deere parts

Should your Hay Conditioner require replacement parts, go to your John Deere dealer where you will receive Genuine John Deere Parts—accept no substitutes.

Location reference

"Right-hand" and "left-hand" sides are determined by facing in the direction the Hay Conditioner will travel when in use.

Serial number



The Hay Conditioner model and serial number plate is located on the left-hand side of the main frame.

Model No. _____

Serial No. _____

Date Purchased _____

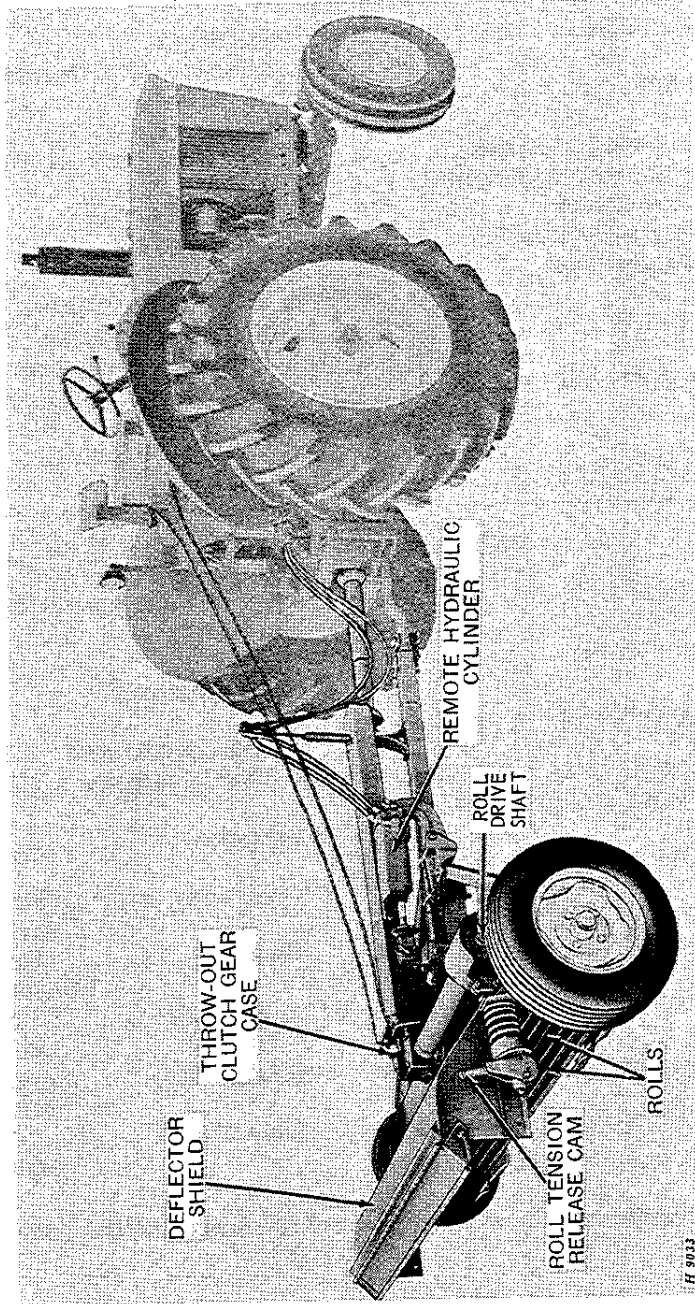
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Specifications

Width of Rolls	72 inches	Tires (when shipped with Hay Con-	conditioners)	6.70-15
Diameter of Rolls:		Weight (Approx.):		
21 Hay Conditioner:		21 Hay Conditioner . .	1,295 pounds	
Large Roll	9 inches	31 Hay Conditioner . .	1,035 pounds	
Small Roll	4 inches	Bearings:		
31 Hay Conditioner:		Gear Case	Four Tapered	
Large Roll	7 inches	Roller Bearings		
Small Roll	5 inches	Wheels	Four Tapered	
Over-All Width	104 inches	Roller Bearings		
Over-All Length	92-1/2 inches	Large Roll	Two Sealed	
Wheels	Standard Drop	Ball Bearings		
Center Type 15-inch Rims		Small Roll	Two Self-Align-	
		ing Ball Bearings		
		Drive Shaft	One Sealed	
		Ball Bearing		

(Specifications and design subject to change without notice.)



John Deere 21 Hay Conditioner—1000 rpm PTO

ff 9032

Operation

The following pages contain instructions for operating your John Deere Hay Conditioner. Read and follow these instructions carefully for dependable, economical service.

Preoperation inspection

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 psi.

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



CAUTION: Protect against the risk of personal injury and machine damage by operating implement only on rpm PTO for which it is designed or converted. A 540 rpm implement should be operated only on a 540 rpm PTO. A 1000 rpm implement should be operated only on a 1000 rpm PTO.

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.

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

After hay conditioner has been in full speed operation for one hour, disengage the PTO and shut off tractor engine. Check hay conditioner to see that all nuts and bolts are tight.

Field operation

Various field conditions require different speeds. Best results will be obtained by running the tractor at the travel speed that will meet crop and field conditions.

Operate tractor engine to obtain the SAE rated PTO speeds. 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 retard 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.

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 and the results will speak for themselves. This should be kept in mind when operating, so adjustments will not be made unnecessarily.

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

Direction of travel should be the same as used by the mower.

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

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Tractor hook-up (540 rpm)

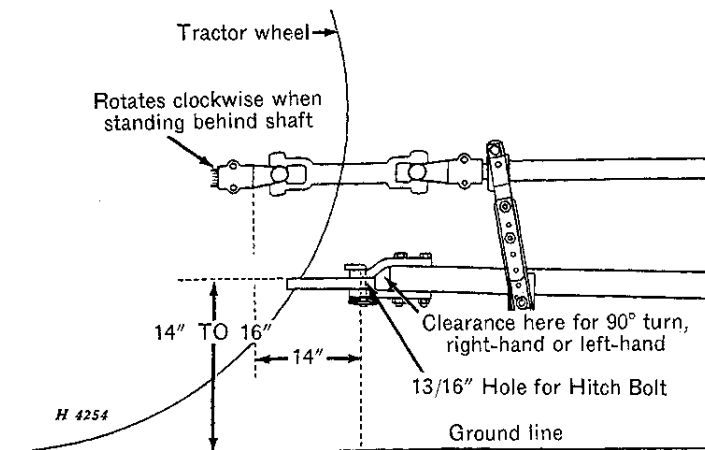
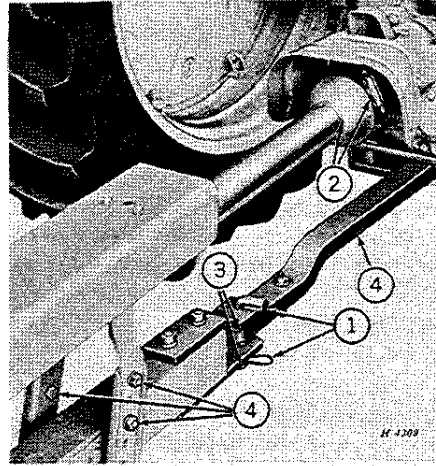
This John Deere Hay Conditioner should be operated only with an ASAE standard 540 rpm PTO. It can be attached to, and used with, any make of tractor so equipped.

1. Connect hay conditioner to tractor drawbar. Hitch point must be 14 inches to rear of tractor PTO shaft.

2. Slide front splined universal joint onto shaft on tractor.

3. Interchange the two hitch plates, or place both at the top or bottom of the hitch, so that power-shaft runs in a straight line as seen from the side.

4. Adjust the height of the power-shaft up or down so it runs in a straight line. Be sure nuts are always to the outside.



Tractor hook-up (1000 rpm)

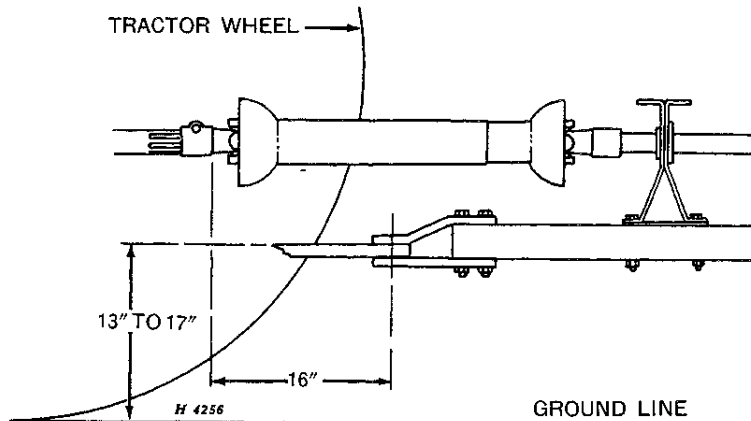
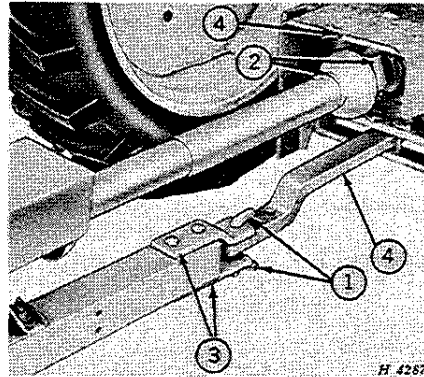
This John Deere Hay Conditioner should be operated only with an ASAE standard 1000 rpm PTO. It can be attached to, and used with, any make of tractor so equipped.

1. Connect hay conditioner to tractor drawbar. Hitch point must be 16 inches to rear of tractor PTO.

2. Assemble front section of telescoping powershaft onto rear section. Slide front splined universal joint onto splined shaft on tractor.

3. Interchange the two hitch plates, or place both at the top or bottom of the hitch, so that powershaft runs in a straight line as seen from the side.

4. Adjust tractor drawbar so powershaft runs in a straight line as seen from the top; lock drawbar in this position.

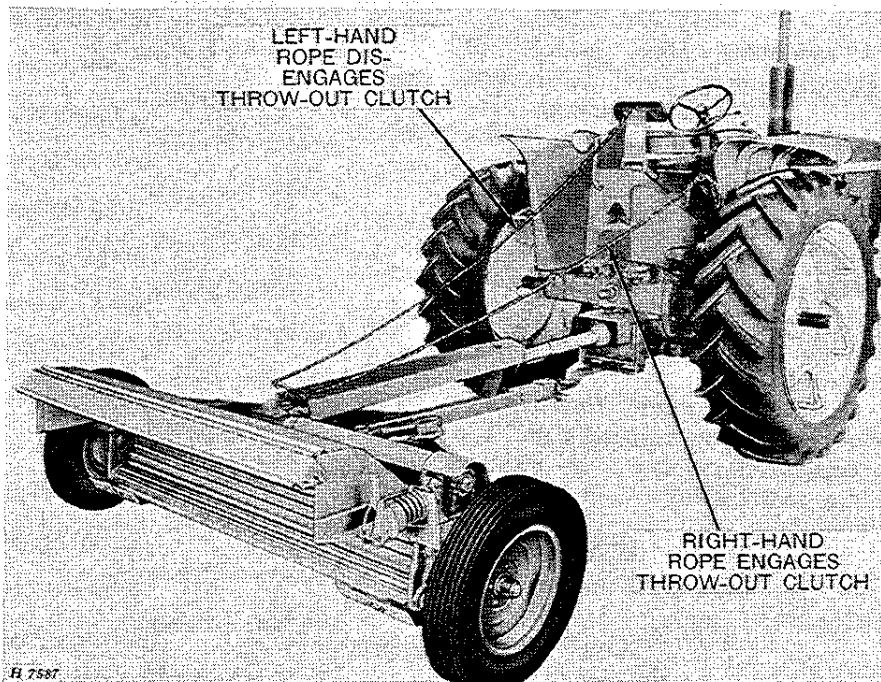
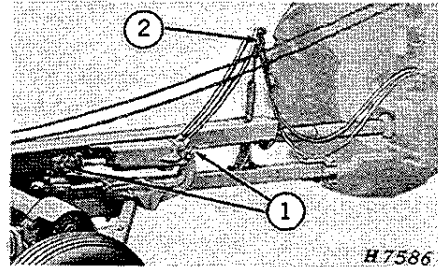


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Installing remote hydraulic cylinder

1. Position hydraulic cylinder in pivot block and secure with pins furnished.

2. Place hoses between clamps and tighten wing nut.



Throw-out clutch (Optional equipment)

To engage the throw-out clutch, pull right-hand rope. To disengage, pull left-hand rope.

NOTE: Make certain the power take-off is disengaged before engaging throw-out clutch.

Ground travel speed

Under normal operating conditions, the tractor should be driven at 3 to 5 miles per hour with engine operating at full throttle. When operating in heavy crops or on rough ground, shift into a lower gear.

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