

"850" Side-Delivery Rakes



JOHN DEERE

OPERATORS MANUAL "850" Side-Delivery Rakes

OME20024 Issue I3 English

OME20024 Issue I3

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ENGLISH



Introduction

Your new John Deere Side-Delivery Rake 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 rake will require some attention at regular intervals. When any questions arise regarding lubrication or adjustments, use your manual as a guide to service your machine the RIGHT WAY.

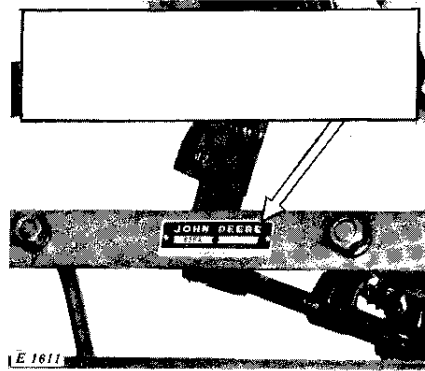
If you find yourself in need of additional information or special servicing not covered in this manual, see your John Deere dealer. He is in a position to answer your questions for you.

When in need of parts either to replace worn parts or to make emer-

gency repairs, see your local John Deere dealer.

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

The serial number of your rake is located on the front end of the reel frame. Record it in the space provided in the picture below.



Contents

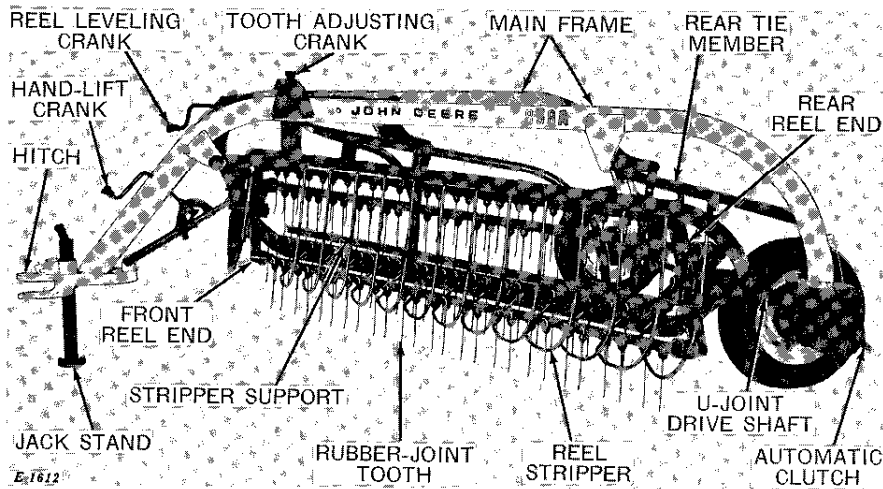
	Page
Specifications	1
Operation	2-7
Before Operation	2
Operating Adjustments	2-6
Transporting	6
Making Hay the John Deere Way	7
Lubrication	8-9
Safety Suggestions	10
Attachments	11-13
Assembly	14-20

Specifications

Over-all width of rake	9 Ft. 11 In.
Over-all length of rake	11 Ft. 6 In.
Length of reel	10 Ft. 10 In.
Number of tooth bars	4
Number of teeth	104
Tread width	6 Ft. 2 In.
Size of pneumatic tires (Rear wheels)	5.90 x 15-4-ply
(Caster Wheel)	4.00 x 8-4-ply
Tire pressure: (Rear wheels)	8 to 15 Lbs.
(Caster wheel)	28 Lbs.
Width of swath	7 Ft.
Operating speed	Up to 7 miles per hour
Bearings	Reel—sealed ball bearings Gear Case—tapered roller bearings Others—oil impregnated bronze bearings
Weight of rake	Approximately 1,066 Lbs.
Drive	Ground driven

NOTE: Right hand and left-hand sides are determined by facing in the direction the machine will travel when in use.

(Specifications and design subject to change without notice.)



Left-hand side view of John Deere 858A side-delivery rake

Operation

The John Deere 850 Series Side-Delivery Rake is a big capacity rake with right angle reel to give you a maximum raking speed with a minimum handling of your crop.

On the following pages you will find information on how to operate your rake to the best advantage.

Before operation

To avoid breakage of parts, which could cause serious delay and expense, observe the following precautions before entering the field.

Before starting the rake, make sure that all bolts are tight, cotter pins are spread, and the machine has been properly assembled. (See pages 14 to 20.)

Check tire pressure. Inflate the rear tires to 8 to 15 pounds. If the rake is equipped with a front caster wheel inflate the tire to 28 pounds.

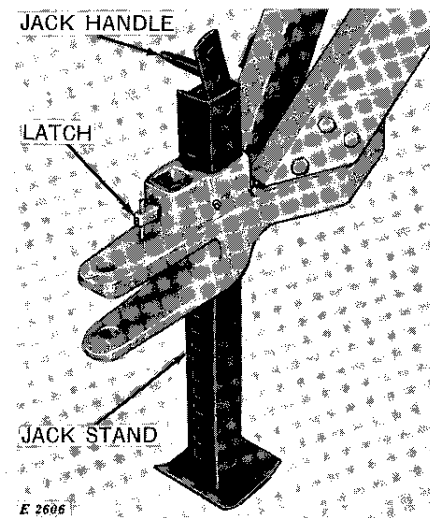
When starting a new side-delivery rake, raise the reel and turn the reel by hand to be sure it revolves freely and the teeth do not strike the strippers; then put the rake in gear by lowering the reel. Jack up the rake and turn the wheels by hand to see that the gears and the reel run free.

Be sure gear case has been filled and rake has been lubricated as shown in lubrication charts on pages 8 and 9.

An occasional thorough inspection for loose bolts and worn parts will add to the efficiency of your rake.

Operating adjustments

Jack stand



During operating or transporting, the jack stand is held firmly up, out of the way, by a spring-loaded latch.

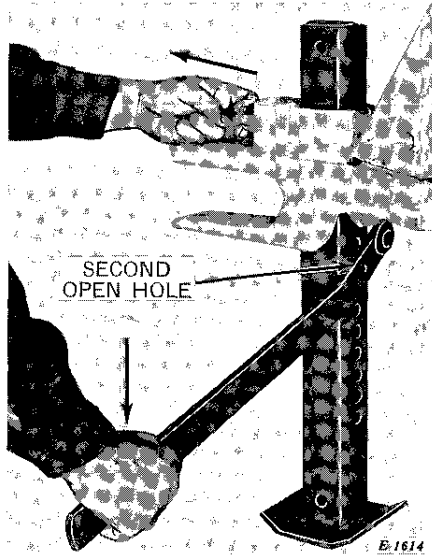
NOTE: The jack stand must be raised to its maximum height and the latch firmly seated. This will lock the stand in the raised position.

Operate the jack stand as follows:

Raising hitch

1. Place the pin on the jack handle completely through the first open hole in the rear of the jack stand which is immediately under the hitch.
2. Push down on the jack handle to raise the hitch.
3. Repeat steps 1 and 2 to raise the hitch higher.

Lowering hitch



1. Place the pin on the jack handle completely through the second open hole below the hitch at the rear of the jack.

2. Push down on the jack handle, then pull out the latch in the front of the jack stand; relax the pressure on the jack handle and release the latch.

3. Repeat steps 1 and 2 to drop the hitch lower.

Replace the jack handle in the top of the jack stand.

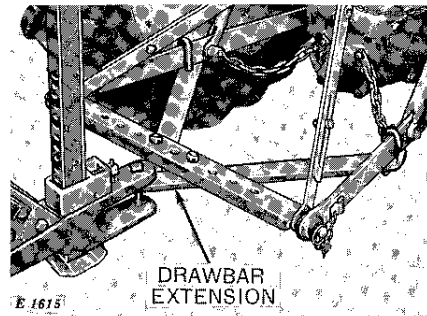
NOTE: It is not necessary to use the jack handle after weight of rake is removed from the jack. The jack may be raised by pulling the latch and lifting the jack by hand. The jack will lower itself to the ground by pulling the pin.

Hitching

Set the tractor drawbar to meet ASAE-SAE standards of 13 to 17 inches from the ground.

Adjusting for short turns

To prevent tires from striking rake frame when making short turns install a hitch extension on the rake and adjust the tractor wheels to a narrow setting. (See page 12.)



When attaching the rake to either a Ford or Ferguson tractor, a drawbar extension should be installed on the tractor hitch to permit making sharper turns without binding between the rake hitch and the tractor drawbar.

Reel locking chain



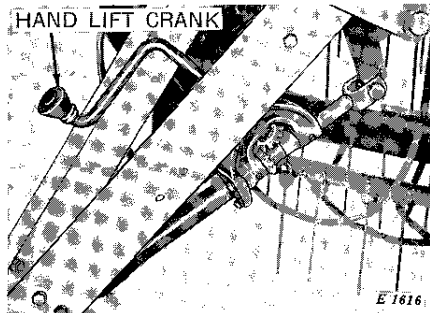
Before installing or removing either the hand lift crank or a remote hydraulic cylinder attach the reel locking chain to the hook on the alignment plate. This will relieve the load on the lift arm. Disconnect the chain before operating.

4 operation

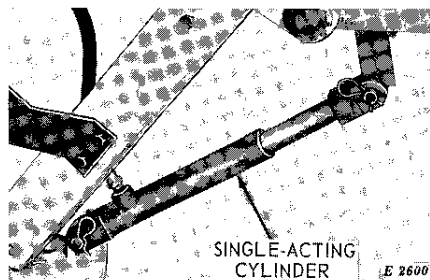
Adjusting reel height

When raking hay crops, set teeth as far as possible from the ground but low enough to allow the teeth to pick up the crop cleanly. The reel teeth can be adjusted below the level of the ground for raking peanuts or beans.

For adjusting reel height, the rake may be equipped with a hand lift crank or a remote hydraulic cylinder attachment.



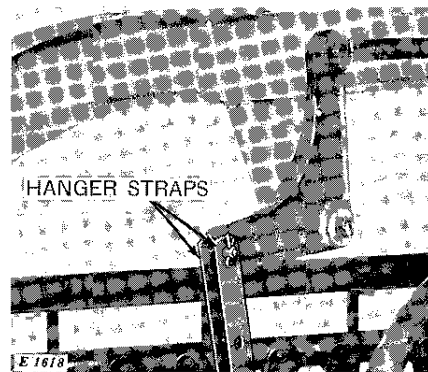
If equipped with a hand lift crank, turn crank clockwise to raise reel for transporting; turn crank counter-clockwise to lower reel for operation.



If equipped with a remote hydraulic cylinder attachment, a John Deere single or double-acting remote cylinder or the remote cylinder of any

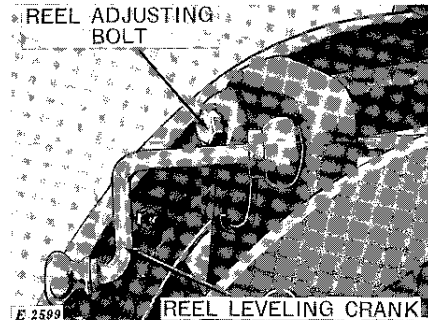
tractor conforming to ASAE-SAE standards may be used.

Refer to tractor manual for information on hooking up and operating the remote cylinder.



If additional height is desired, the reel can be raised an additional amount by using the lower holes provided in the reel hanger straps.

Leveling reel



Reel leveling is controlled with the reel leveling crank and with the reel adjusting bolt. The reel adjusting crank raises and lowers the left-hand end of the reel. The reel adjusting bolt raises and lowers the right-hand end of the reel.

Level the reel with the rake hitch set at drawbar height (13 to 17 inches). Release the reel locking chain

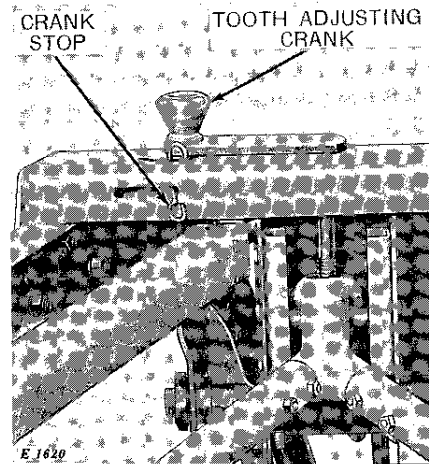
and lower the reel as far as possible with either the hand lift crank or remote hydraulic cylinder. With the reel in this position, be sure the teeth on the right-hand end of the reel clear the ground approximately one inch. If not, loosen the locking nut and adjust the reel adjusting bolt until the teeth on the right-hand end of the reel have the proper ground clearance. Tighten the locking nut. With the leveling crank, raise or lower the left-hand teeth to the same one-inch clearance. The reel adjusting bolt is normally adjusted so there is approximately four inches from the head of the bolt to the front of the tube.

Under certain field conditions, it may be necessary to have one end of the reel higher than the other. Except in extreme conditions, make this adjustment with the reel adjusting crank and the hand lift crank or remote hydraulic cylinder.

To raise the left-hand end of the reel higher than the right-hand end, use the reel adjusting crank. To raise the right-hand end higher than the left-hand end, lower the left-hand end with the reel adjusting crank and raise the complete reel with the hand lift crank or remote hydraulic cylinder. When the right-hand end of the reel must be raised considerably higher than the left-hand, raise the right-hand end with the reel adjusting bolt.

Adjusting tooth pitch

The pitch of the teeth in relation to the surface of the ground is controlled by the tooth adjusting crank. To change the pitch of the teeth, raise the crank stop and shift it to the left-hand side. Turn the crank in a clockwise direction to give a



forward pitch to the teeth. Turn the crank in a counter-clockwise direction to give a rearward pitch to the teeth. Lock the crank by shifting the crank stop back to the right-hand side.

Under average conditions, the normal position for the tooth adjusting crank is with the knuckle in the center of the tooth adjusting crank housing.

Changing the pitch of the teeth makes it possible to vary the shape and density of the windrow when operating at various speeds and in hay of varying characteristics.

When the teeth have a rearward pitch, a tighter windrow will result, and when the teeth have a forward pitch they will produce a loose fluffy windrow.

When raking beans, it may be desirable to gain the utmost forward pitch to the teeth. Turn the crank clockwise to gain the forward-most pitch to the teeth.

NOTE: After changing the pitch of the teeth, the operating height of the teeth must be reset to the desired position.

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