

350 Series Side-Delivery Rakes



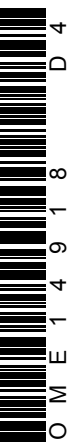
JOHN DEERE

OPERATORS MANUAL 350 Series Side-Delivery Rakes

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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 and adjustments, etc., use your manual as a guide to service your machine the RIGHT WAY.

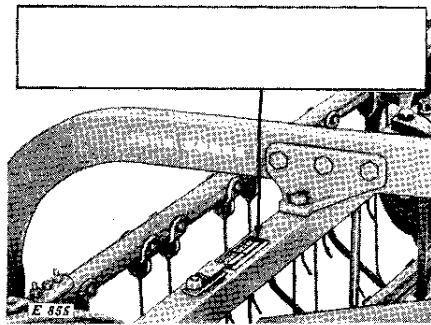
If you find yourself in need of additional information or special servicing not covered in this manual, see your John Deere dealer. He is in a position to answer your questions for you.

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 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

	<i>Page</i>		<i>Page</i>
SPECIFICATIONS.....	1	Antifriction Tooth Bar	
IDENTIFICATION		Bearings.....	13
VIEWS.....	1	Antifriction Bearing	
OPERATION AND AD-		Wheels.....	13
JUSTMENTS.....	2-9	Semi-Integral Rake Hitch.....	14
Before Operating Instruc-		Hand Lift.....	14
tions.....	2	Remote Hydraulic Cylin-	
Making Hay the John		der.....	14
Deere Way.....	3	Hose Support.....	14
3-Point Rake.....	4-6	1000 rpm Conversion Parts	15
Semi-Integral Rake.....	6-7	Integral Peanut Attach-	
Transporting.....	8	ment.....	15
Belt Tension.....	8	Stripper Support.....	15
Operating Speed.....	9	Fifth Tooth Bar.....	16
LUBRICATION.....	10-11	Third Caster Wheel.....	16
ATTACHMENTS.....	12-17	Semi-Integral Lock.....	16
3-Point Rake Hitches....	12-13	Sway Brace.....	17
		Stripper Modeling Tool....	17
		ASSEMBLY.....	18-25

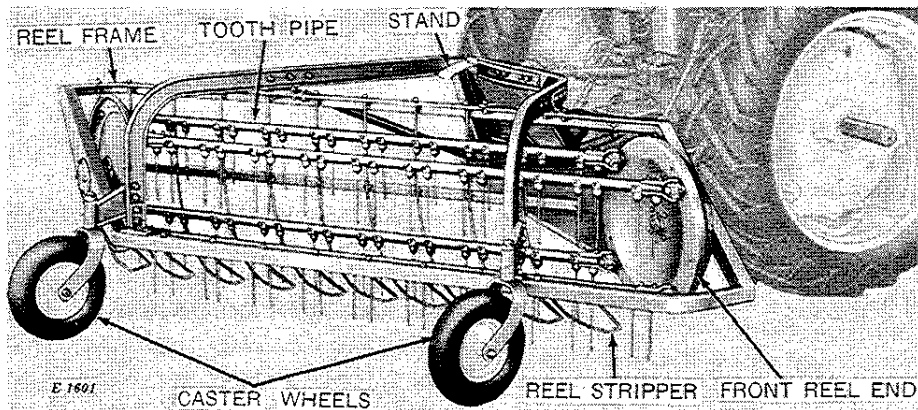
Price

Specifications

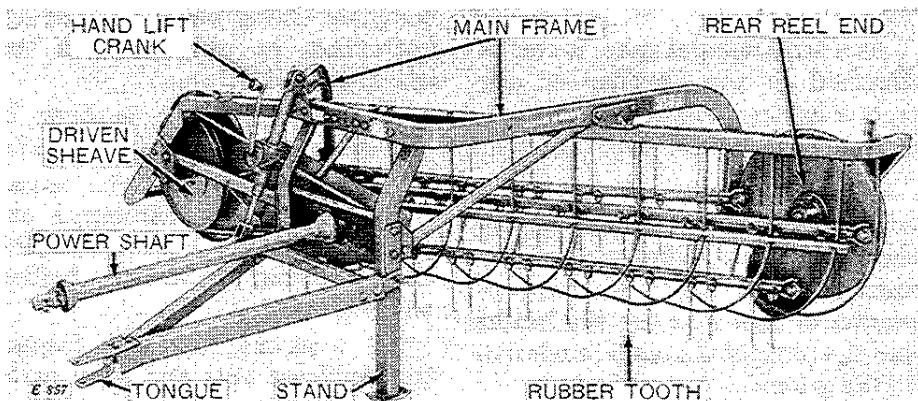
Height—On Stand.....	5 Ft. 5 In.	Tread Width.....	5 Ft. 8 In.
Over-All Width.....	10 Ft.	Size of Pneumatic Tires	4 x 8, 4-Ply
Over-All Length—		Tire Pressure.....	20 Lbs.
3-Point.....	6 Ft. 10 In.	Width of Swath.....	7 Ft.
Semi-Integral.....	10 Ft. 2 In.	Operating Speed.....	Up to 6-1/2 Miles per Hour
Number of Tooth Bars.....	4 or 5	Weight of Rake—	
Number of Teeth—		3-Point.....	Approx. 656 Lbs.
4-Bar.....	80	Semi-Integral..	Approx. 690 Lbs.
5-Bar.....	100		
Power Take-Off... ..	540 or 1000 rpm		

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 and design subject to change without notice.



John Deere 350A 3-Point Side-Delivery Rake Mounted on a "3010" Tractor



John Deere 350A Side-Delivery Rake with Semi-Integral Attachment

Operation and adjustments

Before Operating Instructions

On the following pages you will find information on how to operate your John Deere Side-Delivery Rake to best advantage. If you carefully read and use this information, your rake will give years of dependable and economical service.

The John Deere Side-Delivery Rake is a modern power take-off rake designed for today's high speed farming methods. It is a big-capacity rake with right angle reel to give you maximum raking speed with a minimum handling of your crop.

The Side-Delivery Rake may be operated as a 3-point or semi-integral rake.

As a 3-point rake it can be attached to John Deere Tractors having a power take-off and equipped with a 3-point hitch. The rake can also be attached to other makes of tractors equipped with a similar 3-point hitch and having a power take-off that conforms to ASAE-SAE standards.

As a semi-integral rake, it can be attached to the drawbar of any tractor having a power take-off complying with ASAE-SAE standards.

Side-delivery rakes, once they are adjusted to suit field conditions, are easy to operate. The only adjustments required for satisfactory operation of this rake are the height and the pitch of the teeth in relation to the ground.

The height of the teeth can be

varied from one inch below to two inches above the ground; however, some tractors or hitches will allow a greater range of adjustment. Set the teeth as far as possible from the ground, but low enough to allow the teeth to pick up cleanly.

The pitch of the teeth can be varied by changing the position of the caster wheels. 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.

A stand is provided to support the rake when hitching or unhitching the rake from the tractor.

Before connecting the universal joint, turn the reel by hand to be sure it revolves freely and the teeth do not strike the strippers.

Before starting the rake, make sure that all bolts are tight, cotter pins are spread, and machine has been properly assembled (pages 18 to 25). Check 3-point rake through complete lifting range for binding, bottoming, or uncoupling of the universal joint.

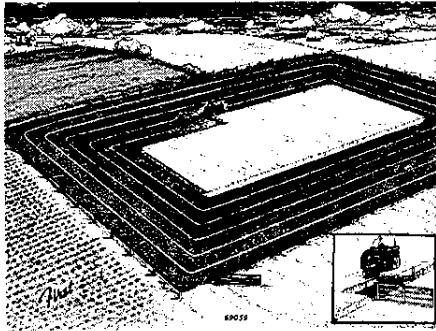
Be sure to lubricate as shown in lubrication chart (pages 10 and 11).

Breakage of parts, which causes serious delay and additional expense, can be avoided by taking the foregoing precautions before entering the field.

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

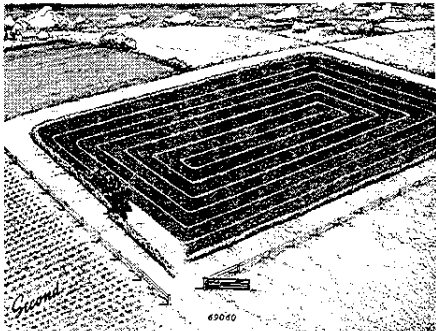
Making Hay the John Deere Way

For proper method of cutting, conditioning, and side raking hay the John Deere Way, see illustrations below.

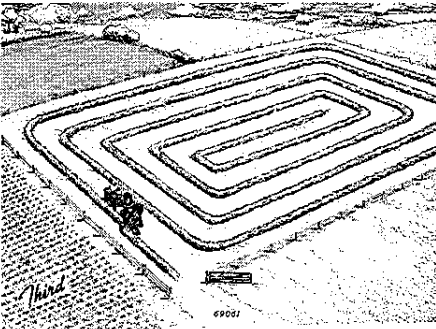


When mowing, open up the land by driving around the edge to cut the hay next to the fence. Then reverse the direction of travel and continue around the field, making right-hand turns.

A hay conditioner behind the mower crimps the stems in the same operation, cutting curing time and assuring better hay.



When the hay has wilted slightly drive the side-delivery rake in the same direction the mower traveled. The plants have fallen back over the mower cutter bar with the leafy heads exposed in an overlapping arrangement; the stems are covered. Working against the heads of the plants, the rake places the majority of the leaves inside the windrow. The leaves, shaded from the direct rays of the sun by the stems, are cured rapidly by the free circulation of air.



To hasten curing of especially heavy crops, or should a shower dampen the windrow, the rake may be used to turn the windrow upside down by driving tractor alongside the windrow with the left tractor wheel just at the edge of the hay. This causes the windrow to be placed with the dry side down on dry stubble.


4 operation and adjustments

3-Point Rake

Preparing the Tractor

For complete operating instructions concerning the tractor, refer to the tractor operator's manual.

Check the speed of the tractor powershaft to be sure it is running according to the manufacturer's recommendation.

 On tractors with a category 1 hitch, attach a minimum of 150 pounds of front end weight for stable operation.

Set the tractor drawbar in the short position and remove any drawbar extension.

On a 2010 Tractor adjust the length of the lift links to a mid-position. On all other tractors adjust the lift links to the recommended maximum length.

On tractors with a category 1 hitch attach the lift links to the inner holes on the rockshaft lift arms. On tractors with a category 2 hitch or an 800 Series Hitch, attach the lift links to the outer holes on the rockshaft lift arms.

If possible, lock out the Load and Depth control.

Attach the center link to the load control yoke in the lowest hole possible without interfering with the rake hookup parts. This will permit better pivoting action between the tractor and the rake and minimize digging or skipping when raking in rough conditions.

On tractors with dual rockshafts adjust the hydraulic system so in-

tegral cylinders are parallel and the lift arms operate together.

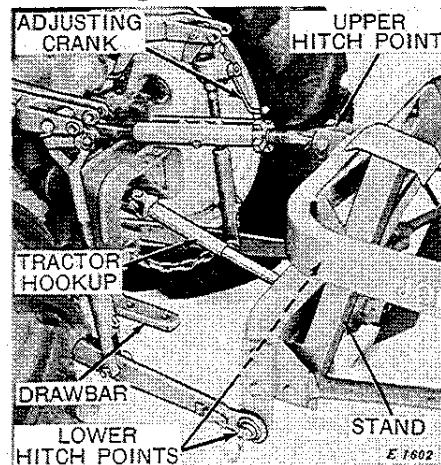
Adjust speed of the rockshaft for a slow drop.

On tractors equipped with sway chains, adjust the chains for a minimum amount of slack. All other tractors must be equipped with sway locks or sway blocks, adjusted to their narrowest position.

On the John Deere 530, 630, 730, 2010, 3010, 3020, 4010, or 4020 Tractors, adjust the collars at the top of the lift links for "floating" action. This will permit either side of the rake to follow ground contours without affecting the other side of the rake.

Remove the guard from the end of the powershaft and install the master shield for 3-point hitch operation.

Attaching Rake to Tractor



The rake can be used with tractors that are geared internally for either 540 or 1000 rpm PTO. It cannot be used with tractors equipped

with an external powershaft speed changer. The 540 rpm tractor PTO shaft has six spline teeth; the 1000 rpm tractor PTO shaft has 21 spline teeth.

Back the tractor so the draft links are approximately in line with the hitch pins on the rake.

Attach the left-hand draft link to the rake left-hand hitch point, using the hydraulic control lever to obtain correct alignment. Attach the right-hand draft link to the right-hand hitch point using the adjusting crank to align the link with the pin.

Attach center link to upper hitch on rake. (See "center link" adjustment in tractor or hitch operator's manual.)

Attach hookup universal joint to tractor PTO shaft. On some tractors it may be necessary to raise the rake to permit connection of the universal joint.

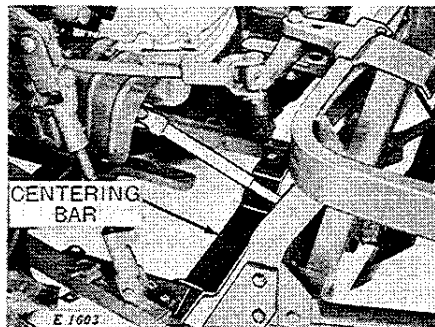
NOTE: Check hookup universal joint through complete lift range to be sure there is no binding, bottoming, or uncoupling of the joint. Adjust shield to clear joint. (Telescoping portion of shield may be reversed for more clearance.) Also check for interference between rake and tractor. If interference occurs, readjust the tractor hitch.

Raise the rake, and place stand in upper position.

Lower rake by moving rockshaft control lever to its lowest position, and adjust for raking tooth height.

CAUTION: Rake must be raised before backing.

Centering Bar



If a centering bar is furnished with your particular rake hitch adapting parts, remove hitch sway chains and attach centering bar between the draft links.

Tooth Height

The raking height of the teeth is controlled by lengthening or shortening the center link. Shortening the link lowers the teeth and lengthening the link raises the teeth.



NOTE: When rake is raised for ditches or abnormal ground conditions, be sure to return rockshaft control lever to lowest position for normal operation.

The 382E Rake Hitch as used on 800 Series and similar tractor hitches has two holes in the hitch point thus allowing a greater range of adjustment.

CAUTION: Shut off tractor engine before dismounting to adjust or work on rake.



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