

# SIDE DELIVERY RAKE NO. 594LW



## OPERATORS MANUAL SIDE DELIVERY RAKE NO. 594LW

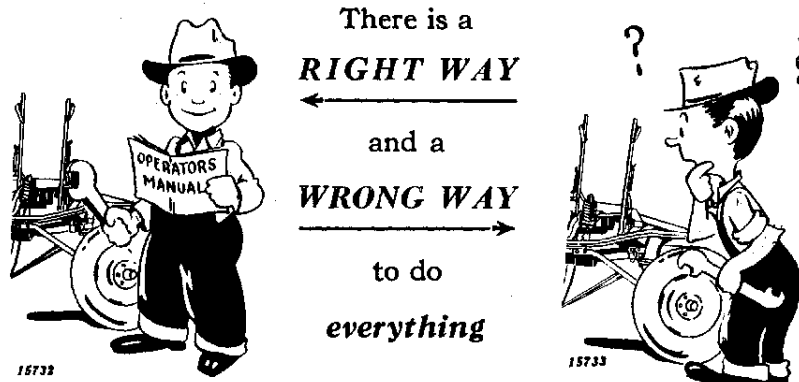
OME15255 (01FEB55) English

**OME15255 (01FEB55)**

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# INTRODUCTION



That is the reason we ask you to keep this manual in a handy place to be used as a guide whenever any questions arise about operating and servicing your new John Deere No. 594LW Side Delivery Rake the **RIGHT WAY**. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

If you find that you need information not covered in this manual, see your John Deere dealer. He can give you prompt "know-how" service in the field or in his shop.

When in need of parts, go to your John Deere dealer. Be sure to give him a complete description of the part, the model of the rake, and the year purchased. This information should be recorded at the bottom of this page as soon as you have received your rake.

### Location Reference:

Right-hand and left-hand reference is determined by standing at the rear of the rake and facing the direction of travel.

<b>Date Purchased</b> .....
<b>Model No.</b> ..... <b>Year</b> .....

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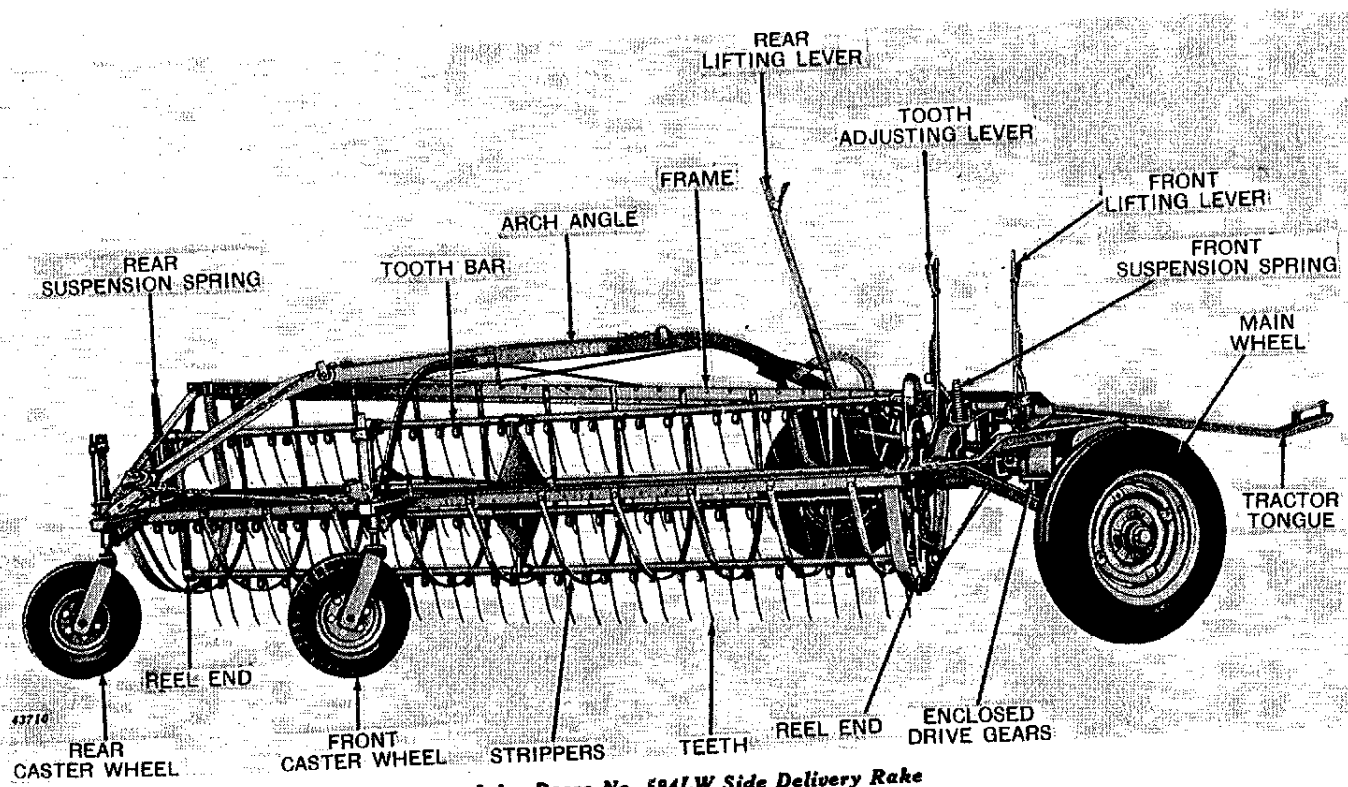
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*John Deere No. 594LW Side Delivery Rake*

## SPECIFICATIONS AND DATA

Over-All Width of Rake.....	9 ft. 10 in.
Over-All Length of Rake (Tongue Removed).....	12 ft. 4 in.
Length of Reel.....	10 ft.
Width of Swath.....	7 ft.
Center to Center of Main Wheels.....	6 ft. 10 in.
Size of Pneumatic Tires.....	Main Wheels—5.90x15—4 ply Caster Wheels—4.00x9.00—4 ply
Power Required.....	1 Plow Tractor
Operating Speed.....	3 to 5 Miles per Hour
Bearings.....	Main Wheels and Reel—Roller Bearings; Others—Replaceable Steel and Bronze Bearings
Weight of Rake.....	1070 lbs.

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

*(It is John Deere policy to improve our machines at every opportunity. Consequently it may be necessary to change design without notice.)*

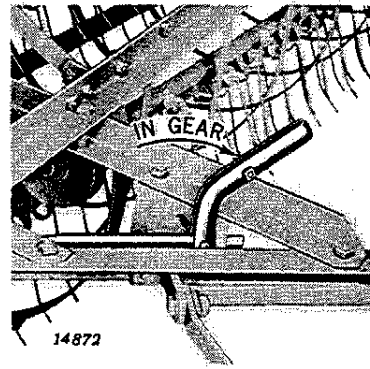
## OPERATION AND ADJUSTMENTS

Before starting the John Deere Side Delivery Rake, make sure that all bolts are tight, cotter pins are spread, and machine has been properly assembled, pages 10 to 20.

Be sure to fill gear case with the proper grade of oil and lubricate as shown in lubrication chart, pages 6 and 7.

When starting a new side rake, turn the reel by hand to be sure it revolves freely and the teeth do not strike the stripper bars. Then throw the rake in gear and turn the wheel by hand to see that the tooth bars and gears run free. Breakage of parts, which causes serious delay and additional expense, can be avoided by taking these precautions before entering the field.

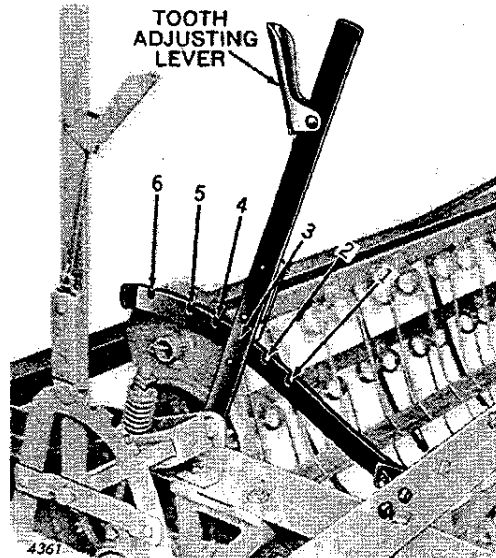
An occasional thorough inspection for loose nuts, worn bolts, and other parts will add to the efficiency of your rake.



### TOOTH ADJUSTING LEVER

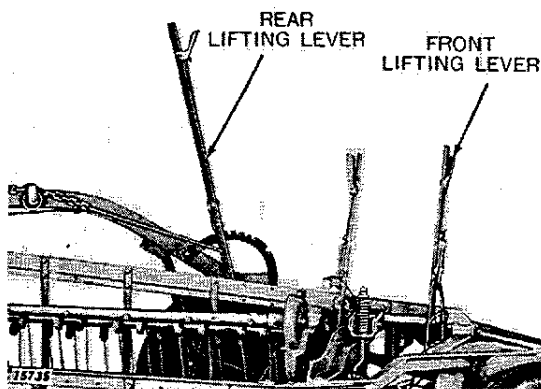
The most important adjustment is the angle of the teeth in relation to the surface of the ground. This adjustment regulates the raking of the teeth for loose or tight windrows.

Under average conditions the normal position for the tooth-adjusting lever will be in the center of the rack, at Notch 3. Moving the lever to the rear toward Notches 4 and 5 increases the forward angle of the teeth to produce a loose, fluffy windrow. Moving the lever forward toward Notches 1 and 2, will decrease the tooth angle to produce a tighter windrow. The Sixth Notch is used when transporting rake. See page 5.



### FRONT LIFTING LEVER

The reel should always be set as high as possible and still pick up clean. A trial in the center notch of the Front Lifting Lever will give an indication of the correct lever setting to allow the teeth to lift the hay into loose, fluffy windrows permitting free circulation of air.

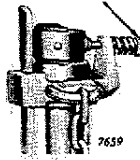


### REAR LIFTING LEVER

The Rear Lifting Lever is properly set when the rear end of the reel is slightly higher than the front end. This aids in making the windrow loose and fluffy.

### CASTER WHEEL BRAKES

BRAKE ADJUSTING NUT



Adjust caster wheel brakes just tight enough to eliminate shimmy in caster wheels when rake is in motion. To stop shimmy tighten caster wheel brake adjusting nut.

### TRANSPORTING

In transporting, the Tooth Adjusting Lever should be moved to Notch 6 (See Page 4). In this position, the teeth are raised above the strippers, out of danger of being bent by hitting obstructions. Raise both ends of the reel as high as possible by moving the front and rear lifting levers into the extreme forward position.



When transporting the machine on a public road at night or during other periods of poor visibility, use a warning lamp in socket provided on the extreme left-hand side of the rake.

A warning lamp, that may be used with other implements, can be purchased from your John Deere dealer.





## LUBRICATION

The economical and efficient operation of any machine is dependent upon regular and proper lubrication of all moving parts with a quality lubricant. Greasing is just as vital to the service life of farm machinery as is the use of proper lubricating oil in the crankcase of an automobile or tractor. Neglect leads to reduced efficiency, heavy draft, wear, breakdown, and needless replacement of parts.

**IMPORTANT:** Before operating machine, check oil in gear box. See Note No. 1.

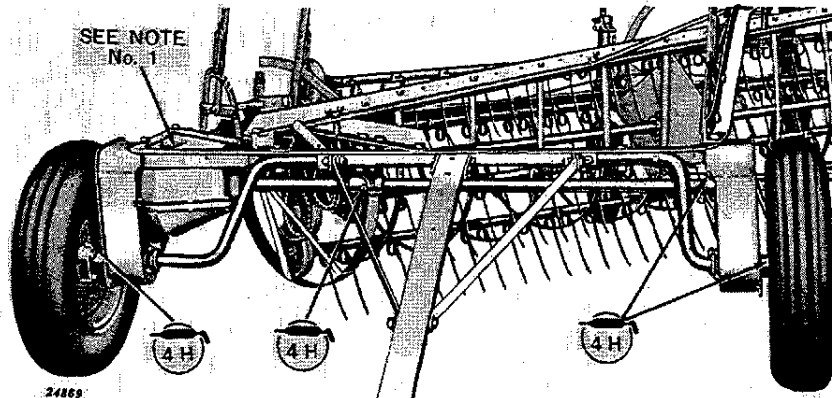
**CAUTION:** Do not clean, lubricate, or adjust your machine while it is in motion.

**FITTINGS:** Clean grease fittings before using grease gun. Replace any lost fittings immediately.

SYMBOLS	
	Grease every four hours of operation.
	Oil every four hours of operation.

### LUBRICATION NOTES

**Note No. 1 Gear Box.** The gear box holds 3 quarts SAE 140 transmission oil. At no time should oil be more than 1 inch below top of oil pan on gear box. Drain, flush out, and refill with fresh oil once each season.





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