

851 AND 858 SEMI-INTEGRAL SIDE-DELIVERY RAKES



JOHN DEERE

OPERATORS MANUAL 851 AND 858 SEMI-INTEGRAL SIDE-DELIVERY RAKES

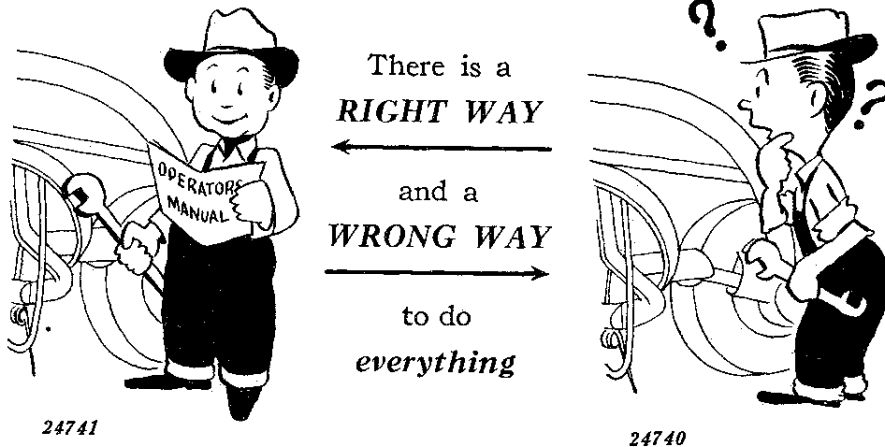
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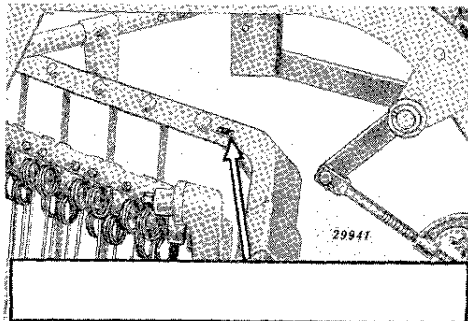
INTRODUCTION



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 Semi-Integral 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 need additional information, or if your rake requires special servicing, see your John Deere dealer—he has all the facilities required to keep your rake in A-1 condition. He will be glad to serve you.

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

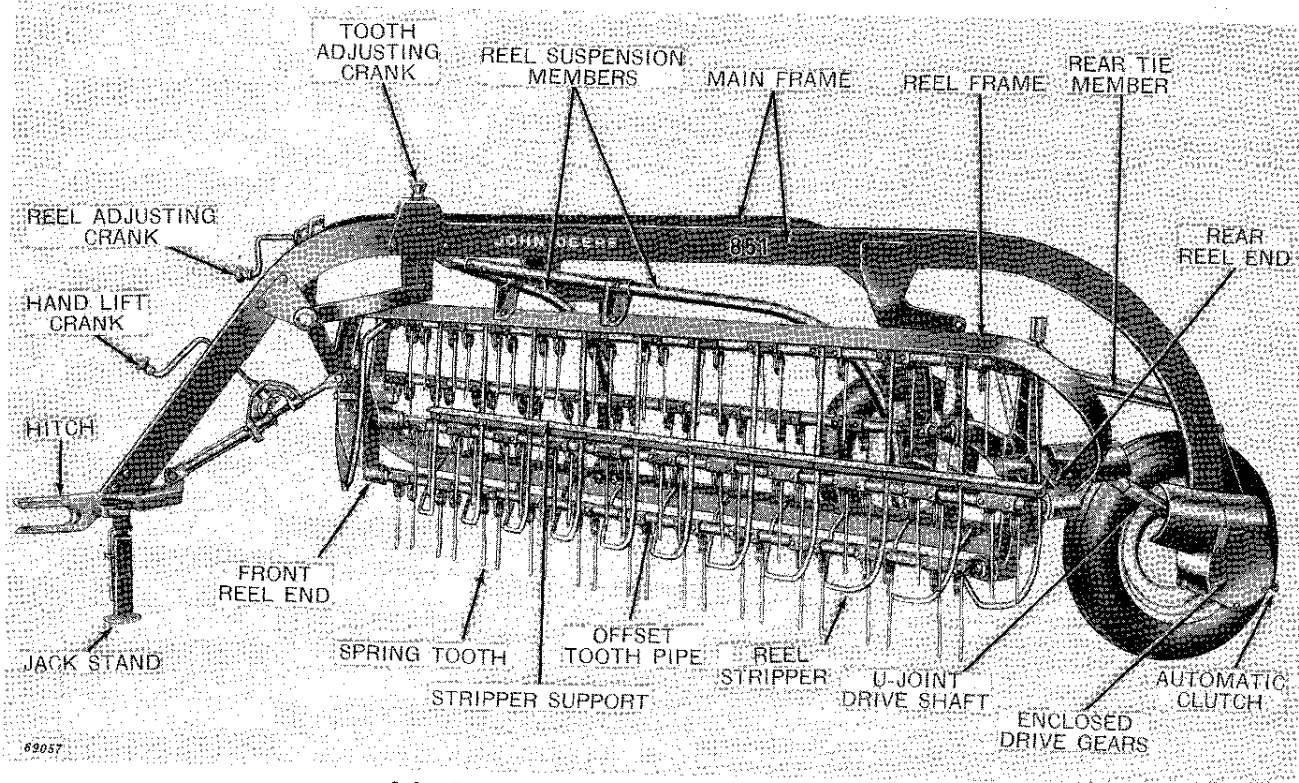


When ordering parts, give your dealer the serial number of your rake. This information will help him give you prompt and efficient service.

The serial number of your rake is located on the front end of the reel frame. (Record it in the space at the left.)

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John Deere Semi-Integral Side-Delivery Rake

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: (851).....	88
(858).....	104
Tread Width.....	6 Ft. 2 In.
Size of Pneumatic Tires.....	5.90x15—4-Ply
Tire Pressure: (Rear Wheels).....	20 Lbs.
(Front Caster Wheel).....	28 Lbs.
Width of Swath.....	7 Ft.
Operating Speed.....	.3 to 7 Miles per Hour
Bearings.....	Reel—Sealed Ball Bearings Gear Box—Tapered Roller Bearings Others—Oil Impregnated Bronze Bearings
Weight of Rake: (851).....	Approximately 1,000 Lbs.
(858).....	Approximately 1,062 Lbs.

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.)

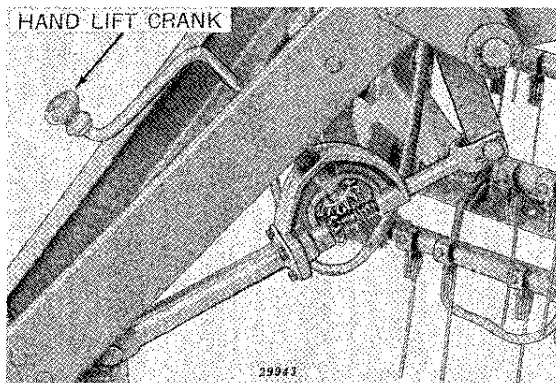
OPERATION AND ADJUSTMENTS

CONTROLS

The controls necessary for operation of your Semi-Integral Side-Delivery Rake are listed below. Before operating your machine, study the controls and make adjustments as shown on Pages 6-7. Then read field operations so you will fully understand your machine.

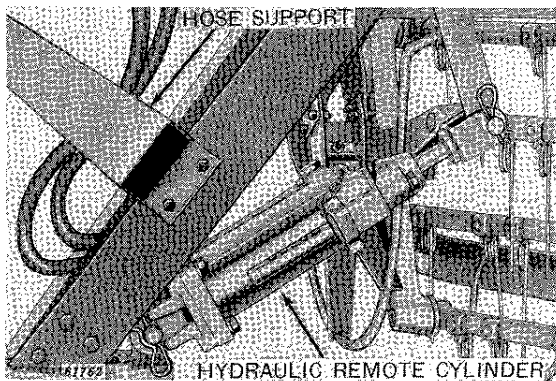
HAND LIFT CRANK.

The hand lift crank lowers the reel into operating positions or raises the reel for transporting. Turn the crank clockwise to raise the reel, counter-clockwise to lower the reel.



HYDRAULIC REMOTE CYLINDER ATTACHMENT.

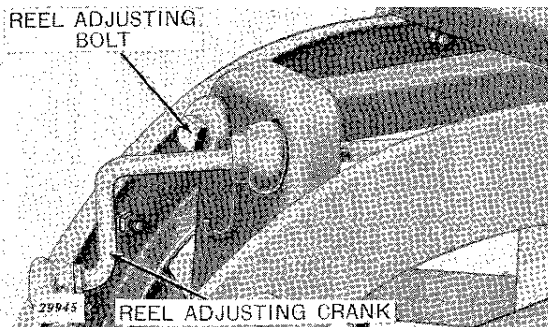
Instead of the hand lift crank the rake can be equipped for hydraulic operation with the John Deere Hydraulic Remote Cylinder or the hydraulic system of any tractor having sufficient capacity and utilizing a remote cylinder that conforms with ASAE-SAE standards.

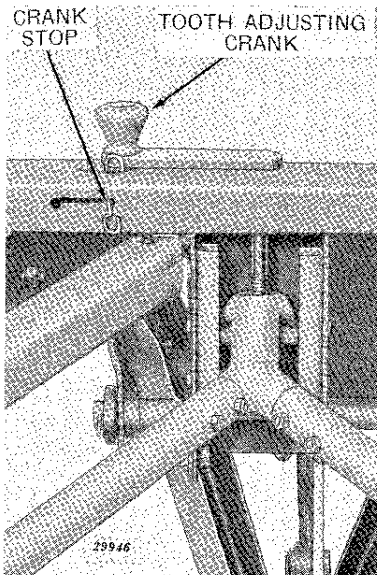


REEL ADJUSTING CRANK. The reel adjusting crank raises and lowers the left end of the reel.

REEL ADJUSTING BOLT

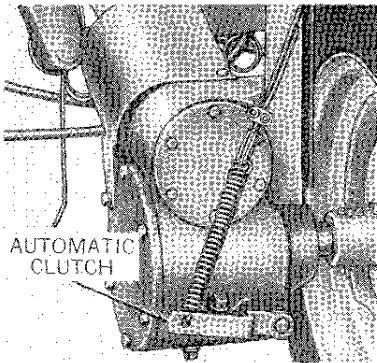
REEL ADJUSTING BOLT. The reel adjusting bolt raises and lowers the right end of the reel.





TOOTH ADJUSTING CRANK

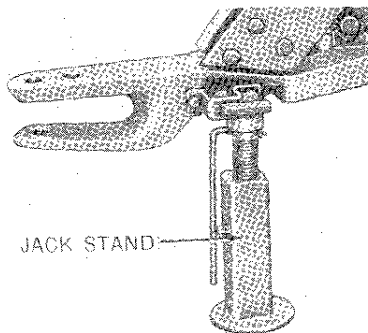
The tooth adjusting crank controls the pitch of the spring teeth in relation to the surface of the ground. To release the crank to change the pitch of the teeth, raise the crank stop and shift to the left. To lock the crank, raise the stop and shift to the right.



AUTOMATIC CLUTCH

The automatic clutch, controlled by a cable from the lift alignment plate, disengages the reel when the reel is raised to transporting position.

The reel may be disengaged from the tractor seat if the hand clutch attachment is used.



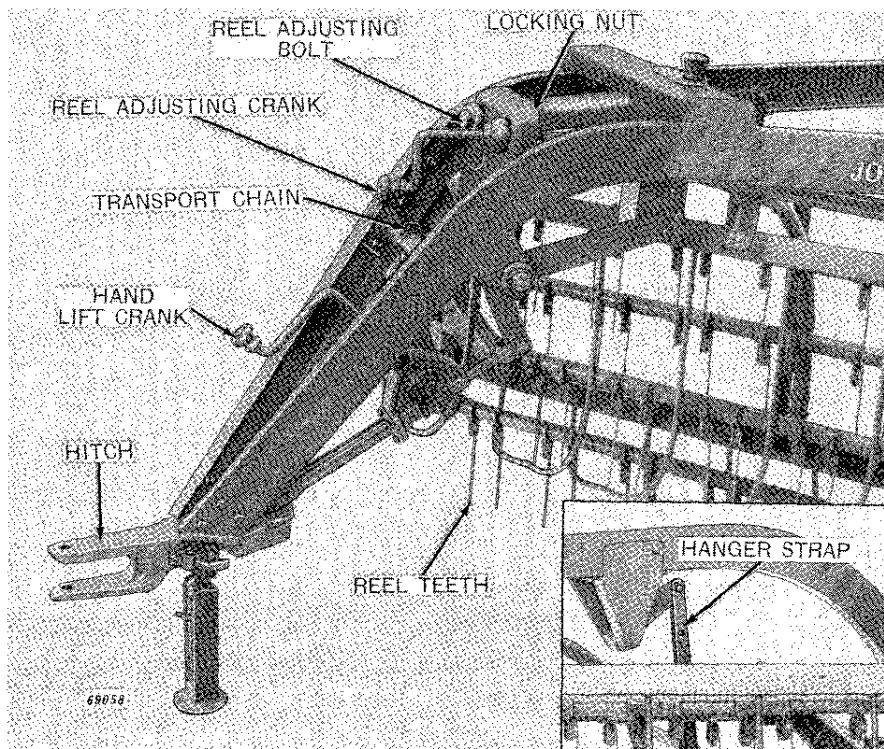
JACK STAND

The jack stand supports the rake when not attached to the tractor.

BEFORE OPERATING INSTRUCTIONS

Before starting the rake, make sure that all bolts are tight, cotter pins are spread, and machine has been properly assembled. Pages 19 to 29.

Be sure to fill gear case with the proper grade of oil and lubricate as shown in lubrication chart, Pages 12 and 13.



REEL ADJUSTMENT

Make the following adjustments with the hitch set at drawbar height (12 to 15 inches). Release the transport chain and lower the reel as far as possible either with the hand lift crank or hydraulic remote cylinder. With the reel in this position be sure the teeth on the right 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 end of the reel have the proper ground clearance. Tighten the locking nut. With the reel adjusting crank raise or lower the left end of the reel to the same one-inch clearance. If additional height is desired, the reel can be raised by using the second hole provided in the reel hanger straps.

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