500 SERIES
ROD WEEDER

JOHN DEERE

OPERATORS MANUAL

500 SERIES
ROD WEEDER

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TO THE PURCHASER

The purpose of this manual is to furnish valuable information about your new John Deere 500 Series Rod Weeder. In this manual, you will find instructions and helpful suggestions for operating, hitching, adjusting, lubricating, and assembling your new weeder.

Keep this manual in a convenient place for quick and easy reference. Use it as a guide whenever questions arise. You have purchased a dependable, sturdy 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 weeder requires special servicing, see your John Deere dealer. He will be glad to serve you.

Sometime in the future, your weeder may need new parts to replace worn or broken parts, or emergency service may be required that is not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine John Deere parts and prompt "know-how" service in the field or shop.

When ordering parts, provide your dealer with the model number of your Rod Weeder, its type, and year purchased. This information will help him to identify the part you need. We suggest that this information be recorded immediately in the space provided below, thereby making it available for future reference.

By giving your weeder proper attention during slack periods, it will always be ready for use, without delays, when you need it.

John Deere No.....Rod Weeder
Date Purchased.....19....

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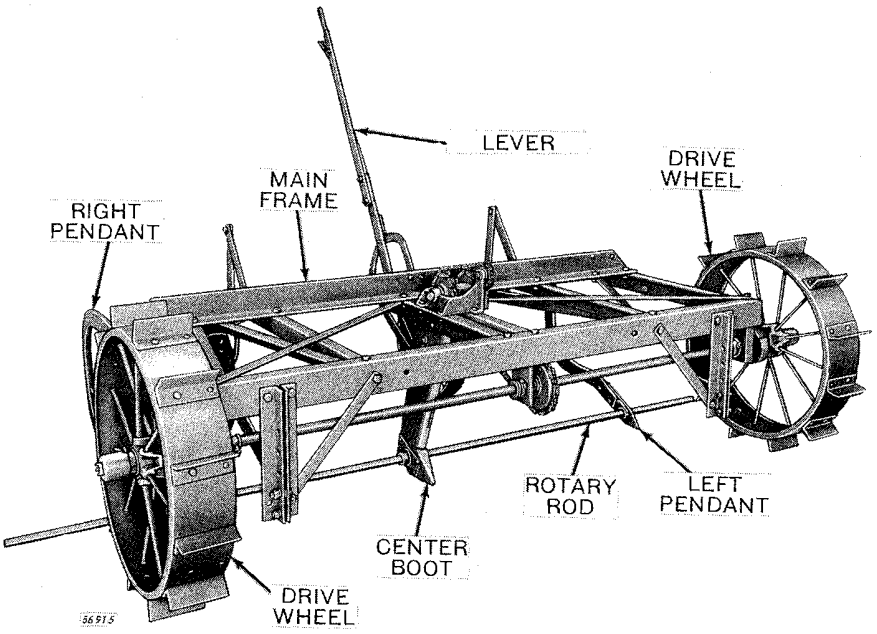
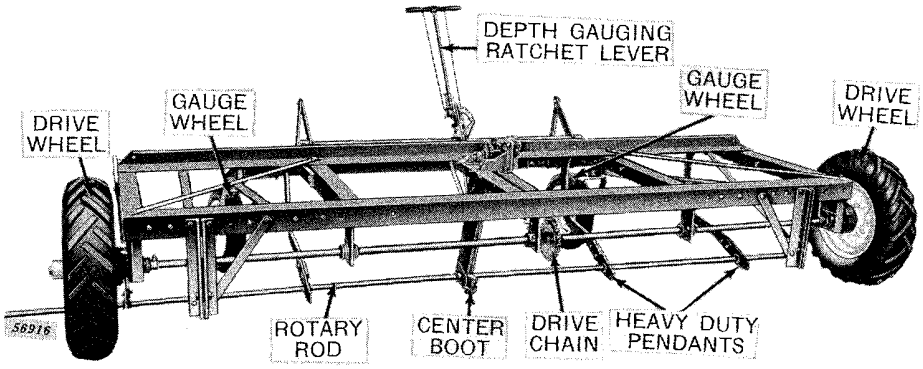


John Deere 510 Rod Weeder, 10-Foot, with Steel Wheels



John Deere 514B Rod Weeder, 14-Foot, with Rubber-Tired Wheels

SPECIFICATIONS

SERIES	500 Drawn Rod Weeder consisting of six models.
MODELS	510 Rod Weeder, 10-foot, with regular pendants and steel wheels.
	512 Rod Weeder, 12-foot, with regular pendants and steel wheels.
	512A Rod Weeder, 12-foot, with heavy-duty pendants and steel wheels.
	514 Rod Weeder, 14-foot, with 4 regular pendants and steel wheels.
	514A Rod Weeder, 14-foot, with 4 heavy-duty pendants and steel wheels.
	514B Rod Weeder, 14-foot, with 5 heavy-duty pendants and steel wheels.
RUBBER TIRES	Rubber-tired wheels, with tires, may be ordered in lieu of steel wheels.
	Rubber-tired wheels, less tires, may be ordered in lieu of steel wheels.
HITCHES	5087D Single Unit Hitch for any 500 Series Rod Weeder.
	2-510 Cable Hitch, Double Unit, for two 510 Weeders.
	2-512 Cable Hitch, Double Unit, for two 512 Weeders.
	2-514 Cable Hitch, Double Unit, for two 514 Weeders.
	3-510 Cable Hitch, Triple Unit, for three 510 Weeders.
	3-512 Cable Hitch, Triple Unit, for three 512 Weeders.
	3-514 Cable Hitch, Triple Unit, for three 514 Weeders.
	Endwise Transport Hitch, for one or more units.
ROD LENGTH	510 Rod is 10 feet, 6 inches.
	512 Rod is 12 feet, 6 inches.
	512A Rod is 12 feet, 6 inches.
	514 Rod is 14 feet, 6 inches.
	514A Rod is 14 feet, 6 inches.
	514B Rod is 14 feet, 6 inches.
OPERATING SPEED	3 to 5 miles per hour.

(Specification and design subject to change without notice.)

OPERATION AND ADJUSTMENT

GENERAL

The John Deere 500 Series Rod Weeder is a drawn unit of simple, sturdy construction, incorporating many outstanding features to assure long life and rugged dependability.

The center drive is comprised of an enclosed chain within a narrow boot which is slanted to the rear. Two large drive wheels are connected to the drive axle by ratchets to provide continuous rotation of the long rod. The drive axle itself is mounted on roller bearings as are the two convex 22-inch diameter, 5-1/2-inch wide trail wheels.

Extreme rearward center of gravity is provided for most efficient penetration of the 7/8-inch square rod. A single lever in the center of the 510 Weeder raises the rod for transport, and lowers it to operating position.

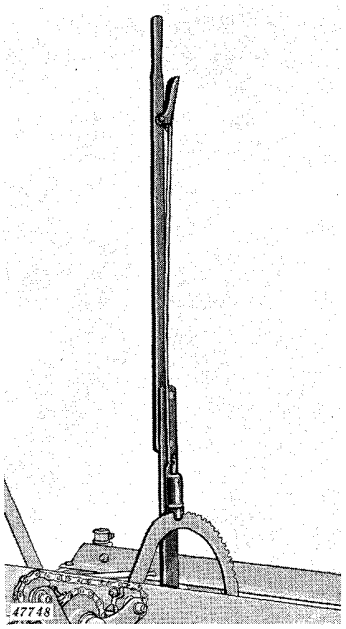
Because of greater weights to be lifted on the 12- and 14-foot machines, a ratchet type lever is used to raise and lower the machine for depth gauging. Gauge wheels on the 12- and 14-foot machines are set in such a way that they will caster 360 degrees for better maneuverability of the machines.

Heavy-duty, 1- x 3-inch pendants are available for use on 12-foot and 14-foot machines. They are especially useful when operating in rocky soil. When heavy-duty pendants are used, blunt-nosed pendant shoes are also used and the center pendant is equipped with a special rock guard shoe. These shoes are designed to ride over rocks and not hook under them.

A 1-1/4-inch pitch implement roller chain is used throughout the drive to insure positive, non-clogging operation.

GAUGE WHEEL LEVER FOR 510 ROD WEEDERS

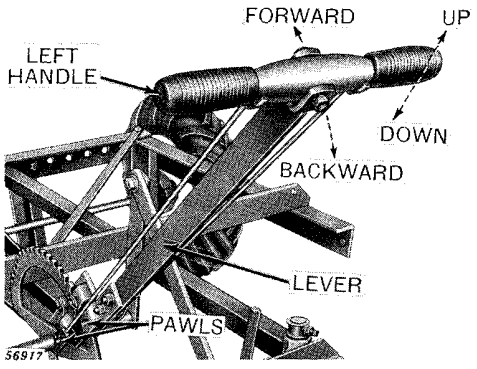
The lever, shown at right, is provided to raise the rotary rod out of the ground when transporting, and to return the rod to the proper position when operating. The lever is shown set in the forward position for the greatest penetration of the rod. Pull this lever toward the rear to decrease the operating depth, and all the way rearward to raise the rod for transport.



GAUGE WHEEL LEVER FOR 512 AND 514 ROD WEEDERS

This lever, shown below, is equipped with two pawls which engage the quadrant so that a jacking action is provided for raising or lowering the weeder. While holding the position of the weeder with one pawl, the other pawl can be moved to another notch in the quadrant without the operator having to hold the weight of the machine as it is raised or lowered. This allows the operator to raise or lower the machine slowly and it provides a double lock to hold the weeder in the desired position.

To Raise—Push the left handle down and move the lever forward as far as possible. Then rock the right handle down, and move the lever backward as far as possible. Repeat this cycle of movements until the desired position is reached, then lock both pawls in the quadrant by leveling both handles.



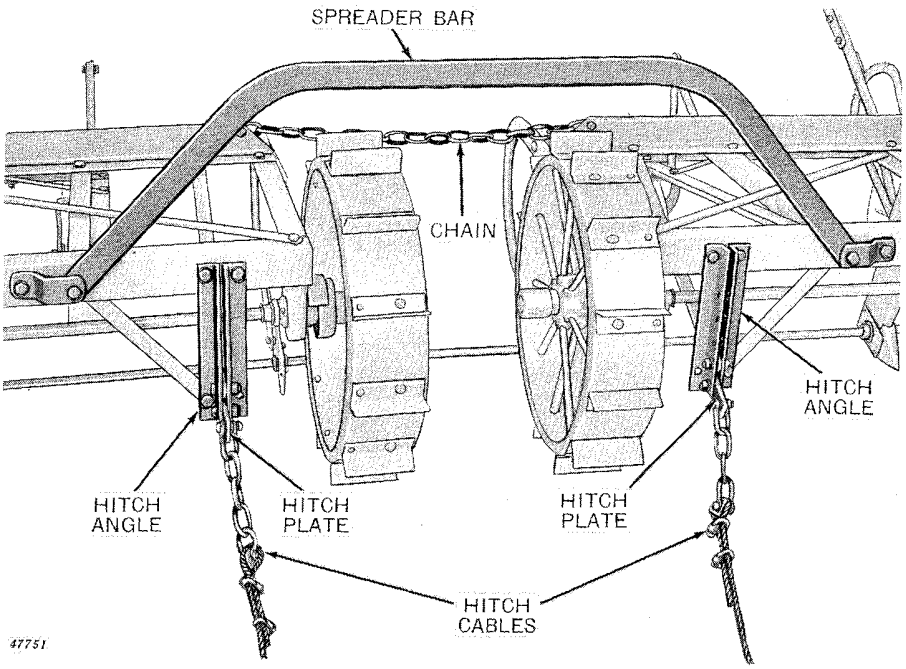
To double lock the weeder in the raised position, set the lever up against the mounting plate as shown at left. A stop prevents the lever from moving too far to the rear and binding.

To Lower—Push the right handle down and move the lever backward as far as possible. Then rock the left handle down and move the lever forward as far as possible. Repeat this cycle of movements until the desired position is reached, then lock both pawls in the quadrant by leveling both handles.

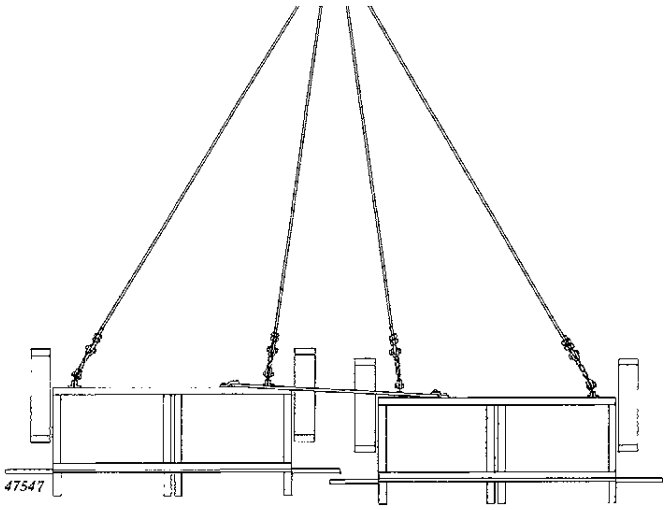
HITCHING

The 500 Series Rod Weeders can be operated as individual units with a rigid hitch, as shown on page 2, or in two-machine or three-machine cable-hitch combinations, as shown on page 7.

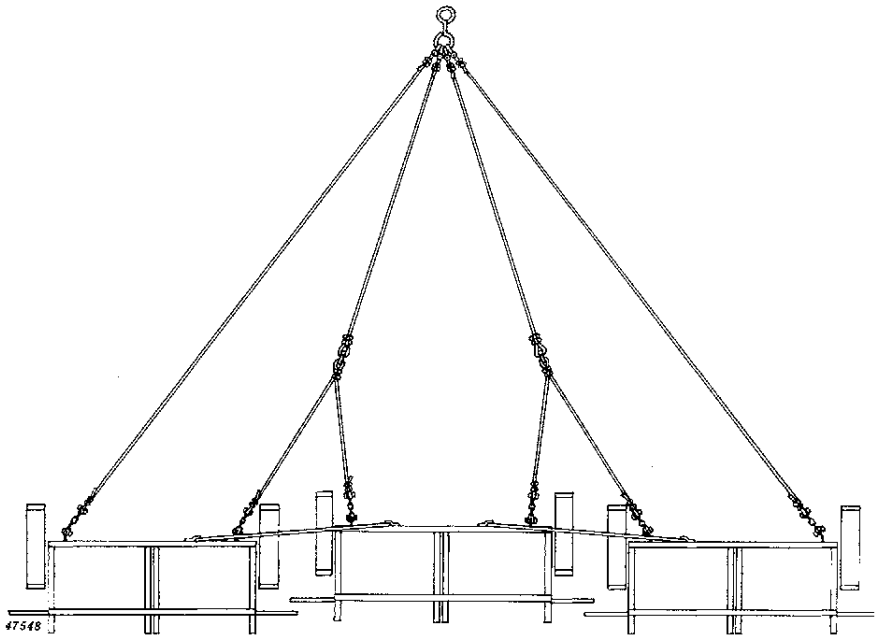
To hitch machines for multiple operation, connect weeders laterally with a spreader bar attached to the front frame of each adjoining weeder, as shown below. Connect weeders at the rear with a tie chain between each adjoining weeder. Attach hitch plate to hitch angles at each end of each weeder. Use angled hitch plates on outermost ends of outermost hitch angles and use straight hitch plates on all other hitch angles. See page 8 for hitch plate adjustments that can be made to control penetration.



When two rod weeder units are to be operated as a double-unit machine, the left-hand weeder must be hitched to operate four inches ahead of the right-hand weeder, in order to maintain proper clearance for the rotary rods. This is accomplished by using the hitch cable with four chain links on the right-hand weeder, and the hitch cable with two chain links on the left-hand weeder, as shown at top of page 7.



When three rod weeders are to be operated together as a triple-unit machine, the center weeder must be hitched to operate four inches ahead of the other two weeders, in order to maintain proper clearance for the rotary rods. This is accomplished by using hitch cables with three chain links on each clevis, attached as shown below.



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