

MODEL "W" SPREADER (SERIES 1)



JOHN DEERE

OPERATORS MANUAL MODEL "W" SPREADER (SERIES 1)

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TO THE PURCHASER

This manual covers operation and service instructions for the Model "W" Power Take-Off Spreader, Series "1."

The Model "W" Spreader has been designed to meet the manure handling requirements of the average cattle feeder, dairyman, and farm operator. It will spread large loads under adverse seasonal conditions, thereby saving you considerable time and operating expense.

This spreader is strongly built to withstand all-weather use and the abuse of mechanical loading. However, the life and performance of your spreader will depend largely on the care given it by the operator.

Lubrication is very important. Study the lubrication charts on pages 12 and 13 and lubricate the machine as instructed. If a grease fitting becomes lost or damaged, replace it immediately.

It is recommended that you read this manual carefully to acquaint



yourself with the different phases of operation. If additional information is needed, see your John Deere dealer.

When in need of parts, see your John Deere dealer. He is equipped to provide genuine replacement parts which will maintain the life and satisfactory performance of your spreader.

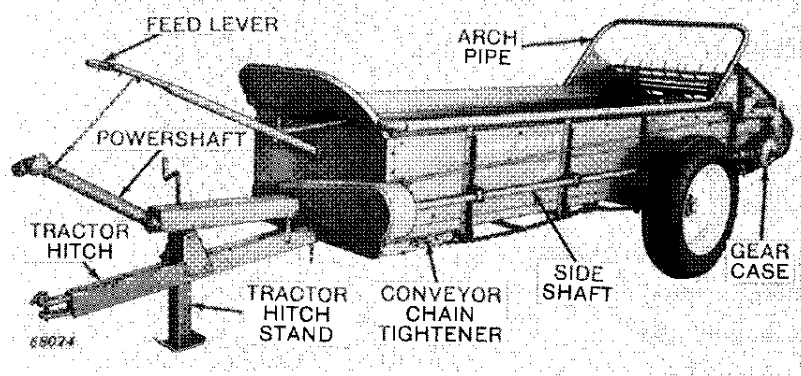
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**JOHN DEERE MODEL "W" POWER TAKE-OFF
SPREADER, SERIES "1"**

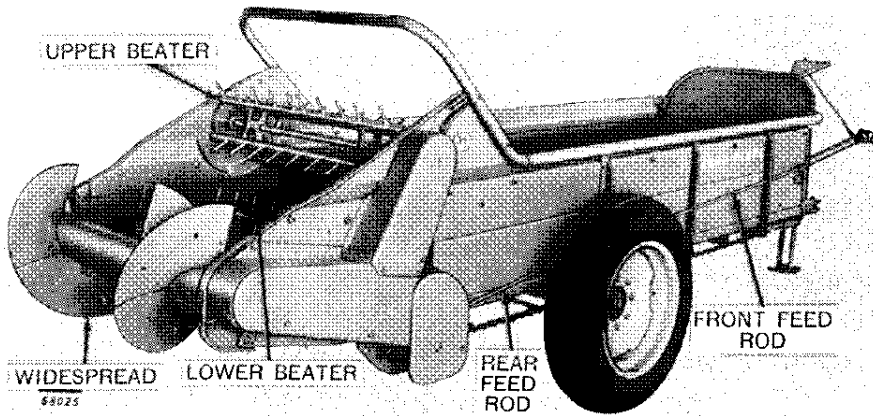
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CONTENTS

	<i>Page</i>
SPECIFICATIONS	3
OPERATION	4-11
Description	4
Preparing the Tractor	4-5
Hitching Spreader to Tractor	5
Before Loading Spreader	5
Loading Spreader	5
Unloading Spreader	5
Feed Control Lever	6
Chain Tighteners	7
Feed Adjustments	8-9
Feed Rod	9
Tire Inflation Table	9
Safety Suggestions	9
Endgate	10
Limespread	11
LUBRICATION	12-13
CONVERTING FROM 540 TO 1000 RPM PTO DRIVE	14-16
SERVICE	17-21
Beaters	17-18
Adjusting Slip Clutch on Side Shaft	18
Slip Clutch on Side Shaft	19
Feed Parts on Conveyor Shaft	19
Adjusting Clutch for Lower Beater	20
Gear Case	20
Gear Case and Clutch	21



*John Deere Model "W" Power Take-Off Spreader
(Left Side View)*



*John Deere Model "W" Power Take-Off Spreader
(Right Side View)*

SPECIFICATIONS

Inside Width of Box.....	39-1/4"
Depth to Top of Flare.....	21-5/8"
Wheel Tread.....	62-1/8"
Over-All Width Over 7.50 x 20 Tires.....	70-1/8"
Over-All Length.....	214-9/16"
Floor to Top of Feed Lever Column.....	52-1/2"
Height (Empty) with 7.50 x 20 Implement Tires and with Under Side of Hitch Clevis 16 Inches from Floor:	
Floor to Flare Side at Dash.....	43-1/2"
Floor to Flare Side at Axle.....	41-1/2"
Floor to Top of Pipe Arch.....	60-3/4"
Weight of Spreader (Empty) with 7.50 x 20, 4-Ply Im- plement Tires:	
At Wheels.....	1440 Lbs.
At Hitch Point.....	172 Lbs.
Total.....	1612 Lbs. (Approx.)
Turning Radius.....	17' 6"
Capacity of Spreader.....	95 Bu.

ATTACHMENTS

Endgate. For wet manure. Can be raised by operator while on tractor seat.

Limespread. For spreading lime or highly concentrated fertilizer, such as dry chicken or pulverized sheep manure.

(Specifications and design subject to change without notice.)

OPERATION

DESCRIPTION

The John Deere Model "W" Power Take-Off Spreader is a two-wheel, steel-reinforced, wood-box spreader. The power required to drive both beaters and the conveyor is derived from the tractor PTO shaft, insuring constant unloading power under wet and slippery ground conditions.

When equipped with the proper drive parts, the Model "W" Spreader may be driven by tractors with either 540 or 1000 rpm PTO. Always be sure that both the tractor and spreader are equipped with the same rpm PTO and drive parts.

The lower beater can be stopped while the conveyor continues to operate to empty the spreader completely at the end of each load.

A choice of three feed lever settings (slow, medium, and fast feed) combined with three tractor operating speeds, provides a total of nine rates of spreading. This provides a feed range from light to heavy for the various rates of application that may be desired.

PREPARING THE TRACTOR

FRONT END WEIGHTING AND TIRE INFLATION

Maximum front end weighting must be used on John Deere "430," "420," "40," "M," and "MT" Tractors to provide sufficient front end stability.

Other tractors should have sufficient front end weighting to make them stable for hilly land operation or other adverse operating conditions.

Refer to your tractor Operator's Manual for front tire inflation pressure.

REAR WHEEL WEIGHTING AND TIRE INFLATION

For John Deere "430," "420," "40," "M," and "MT" Tractors equipped with 9-24 rear tires, inflate to 18 pounds air pressure. Do not use rear wheel weights with these tractors.

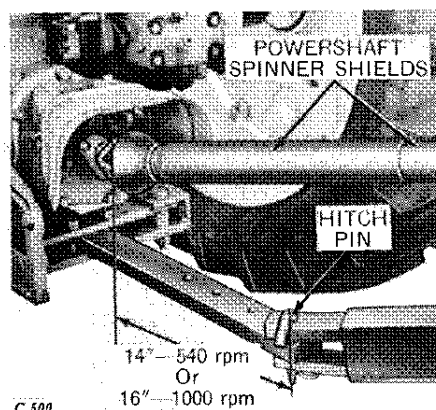
For other John Deere Tractors, or other makes of tractors, refer to your tractor Operator's Manual for permissible rear wheel weighting and tire inflation pressure.

TRACTOR REAR WHEEL TREAD

The tractor rear wheels should be spaced wide enough to insure safe stability, particularly for hillside operation.

TRACTOR DRAWBAR

Adjust the drawbar in the extended position, **14 inches from the end of powershaft to hitch pin hole in drawbar for 540 rpm, and 16 inches from the end of powershaft to hitch pin hole in drawbar for 1000 rpm.** The drawbar must be pinned in line vertically with center of powershaft. These measurements must be made carefully and accurately to insure safe and satisfactory operation.



For John Deere Tractors with offset drawbar, the offset should be down.

If spreader is used with John Deere "M" or "MT" Tractors, refer to your tractor Operator's Manual for correct drawbar adjustment.

For continuous heavy service, replace the regular drawbar on John Deere "40," "40" Standard, "530," "630," "730," "520," "620," "720," "50," "60," and "70" Tractors, as well as styled Models "A," "AO," "AR," "B," and "G" Tractors, from 1946, with the special stronger drawbar supplied as extra equipment. On other tractors it may be necessary to reinforce the regular drawbar.

JOHN DEERE MODEL "R" TRACTOR

If the "W" Spreader is to be used with the John Deere "R" Tractor, it will be necessary to cut 16 inches out of the feed lever column and feed lever link and weld the two pieces together. This will eliminate interference with the tractor seat.

HITCHING SPREADER TO TRACTOR

The spreader should be connected to the tractor drawbar before connecting the powershaft.



Be sure powershaft spinner shields are in place and revolving freely before operating the tractor and spreader. See illustration on page 4.

When unhitching the spreader from the tractor, disconnect the powershaft before removing the hitch pin.

BEFORE LOADING SPREADER

Operate the empty spreader to limber it up and see that it is working properly.

Before loading the spreader in

freezing weather, make sure that conveyor is not frozen to the bed.

Locate the feed lever in the "out of feed" position. See "Feed Control Lever" on next page.

LOADING SPREADER

In loading the spreader, it is advisable to start loading at the front end. This will permit uniform spreading of the material and will reduce the power requirements.

Never load spreader higher than the arch pipe.

UNLOADING SPREADER

Always be sure that the feed lever is in the "out of feed" position when traveling with a loaded spreader, so the manure will not jam against the beaters.

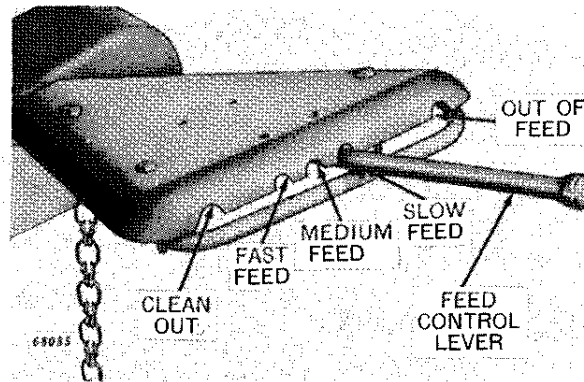
Make sure the loaded spreader is not operated with the feed lever in the "clean out" position. It should always be in the "out of feed" position when engaging the tractor PTO shaft. This will permit the beaters to operate and will provide clearance for the beaters before the conveyor chain moves the load rearward.

Avoid sudden engagement of power take-off drive at full throttle, as it may impose destructive loads on the spreading mechanism even though protected by the slip clutch. However, to insure proper beater speeds when spreading, operate the tractor at full throttle in the desired ground speed. This will insure the tractor PTO shaft operating at the correct speed.

When the spreader is nearly unloaded, shift the feed lever into the "clean out" notch position. This will allow the chain conveyor to travel, but will stop the lower beater. This permits the chain conveyor to clean the bottom of the spreader.

When the spreader has been completely emptied and before leaving the field, return the feed control lever to "out of feed" notch position and disengage the tractor PTO.

FEED CONTROL LEVER



Five feed control lever settings are provided. **With the tractor power-shaft engaged the various settings affect the operation of the spreader as follows:**

Out of Feed. Chain conveyor does not move. Beaters and widespread in operation.

Slow Feed. Chain conveyor moves slowly for thin spreading of manure. Beaters and widespread in operation.

Medium Feed. Chain conveyor at moderate speed for medium spreading of manure. Beaters and widespread in operation.

Fast Feed. Chain conveyor in fast feed for heavy spreading of manure. Beaters and widespread in operation.

Clean-Out. Chain conveyor in fast feed. Lower beater disengaged. Upper beater and widespread in operation.

As instructed above, the "clean-out" setting of feed control lever provides fast chain conveyor travel but disengages the lower beater. The purpose of this is to prevent throw-back of manure by the lower beater when the spreader is nearly emptied when spreading in the field. Under no circumstances must the "clean-out" setting be used unless the spreader is nearly empty, otherwise the load will wedge against the beaters causing breakage.

The fact that the upper beater is revolving is a warning to the operator to check if the feed control lever is in the proper notch, especially with a loaded spreader.

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