

JOHN DEERE 33 SPREADER



OPERATORS MANUAL JOHN DEERE 33 SPREADER

OMC18275 F6 English

JOHN DEERE WELLAND WORKS
OMC18275 F6

LITHO IN THE U.S.A. (REVISED)
ENGLISH



TO THE PURCHASER

This manual provides the recommended procedures for operating, lubricating, and servicing your new John Deere 33 Spreader.

Long life and satisfactory performance of the spreader will depend upon your following the instructions given in this manual. Read it carefully before putting the spreader to work. Be sure to store the manual in a safe, convenient place so that you can refer to it quickly.

Proper lubrication of the machine is very important. Note the lubrication instructions on page 12. If a grease fitting becomes lost or damaged, replace it immediately.

When in need of new parts or service, see your John Deere dealer. He is equipped to provide genuine John Deere replacement parts; his servicemen have the training and experience to service your equipment efficiently.

LOCATION REFERENCES

References in this manual to the right- and left-hand sides of the machine have been determined by standing at the rear of the spreader, facing in the direction of travel.

SERIAL NUMBER LOCATION

The serial number plate is located on the front of the spreader, at the lower left-hand side.

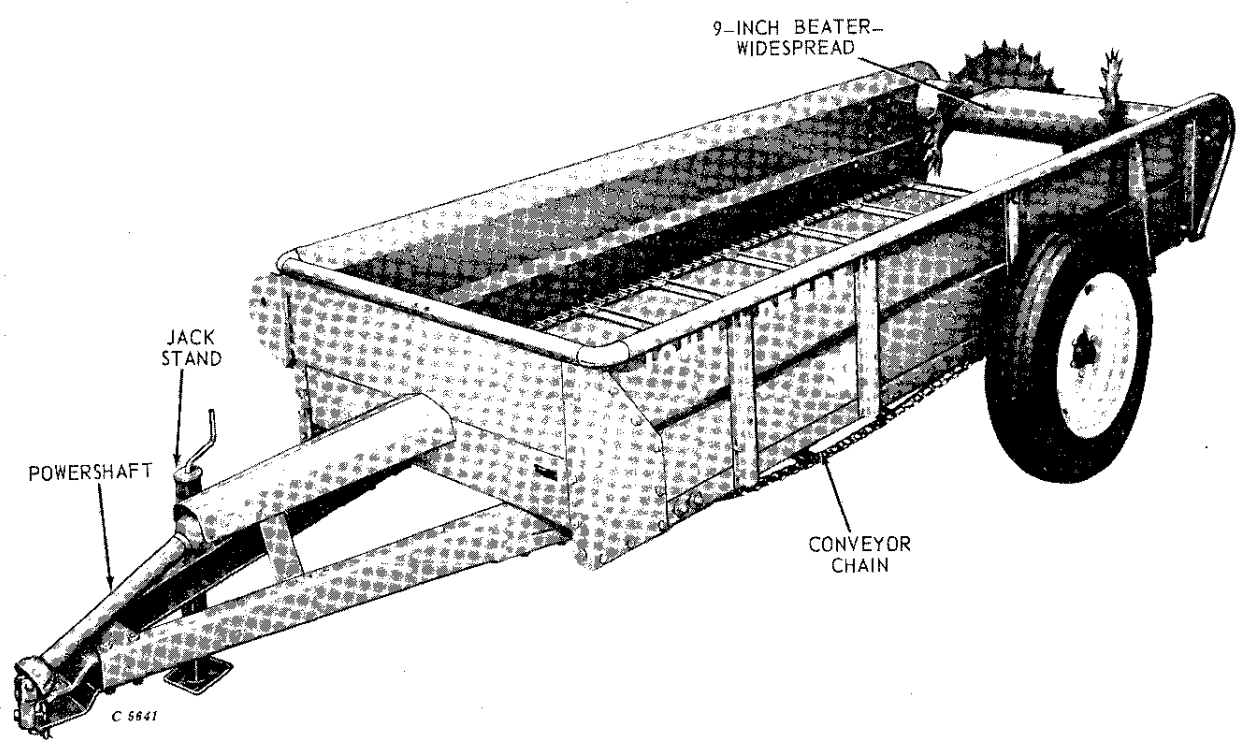
For ready reference, record the serial number in the space below.

Spreader Serial No.

Date Purchased

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John Deere 33 Spreader with Hitch Stand

SPECIFICATIONS

RATED CAPACITY:
 Manufacturer's recommendation. 118 bushels manure
 ASAE rating 139 bushels

OPERATION: 540 or 1000 rpm PTO

BED CONVEYOR SPEEDS (AT 540 or 1000 rpm):
 (Tractor-Seat Feed Control and Rear Feed Control)
 1st notch 3.33 feet per minute
 2nd notch 6.66 feet per minute
 3rd notch 9.99 feet per minute
 (Tractor-Seat Feed Control Only)
 4th notch 9.99 feet per minute
 with beater disengaged.
 5th notch Spreader in neutral position

BEATER-WIDESPREAD:
 Diameter 27 inches
 Speed at 540 or 1000 rpm 300 rpm

INTERIOR BOX DIMENSIONS:
 Width 52 inches
 Depth (to top of flare) 20 inches
 Max. length 114-7/16 inches

OVER-ALL LENGTH: 16-1/2 feet
OVER-ALL WIDTH:* 79-1/4 inches
OVER-ALL HEIGHT:* 47 inches

LOADING HEIGHT:*
 (Ground to top of flare) 41-1/4 inches

WHEEL TREAD WIDTH:
 (Center-to-center of tires) 70 inches

WEIGHT EMPTY:*
 At wheels 1405 pounds
 At hitch point:
 Axle in front position 140 pounds
 Axle in center position 165 pounds
 Axle in rear position 195 pounds
 Total 1580 pounds

ATTACHMENTS: Hitch stand, beater shields, warning lamp bracket, and endgate.

*Spreader equipped with 7.50 x 20, 4-ply implement tires, axle in center position.

(Specifications and design subject to change without notice.)

DESCRIPTION

The John Deere 33 Spreader is a high-capacity, low-profile spreader that fits easily under all types of barn cleaners. The spreader is designed for easy cleaning, particularly in cold weather.

The two-wheel, adjustable-axle 33 Spreader features a single beater-widespread with diamond-shaped shredding teeth mounted on right- and left-hand spirals. The beater-widespread does not have to be "dug out" in freezing weather, because its unique design prevents build-up of caked and frozen manure.

The beater-widespread and bed conveyor operate from a single gear case and one roller chain driven by a 540 or 1000 rpm tractor power take-off. Constant and even unloading is assured, regardless of ground conditions. The beater-widespread can be stopped while the bed conveyor continues to clean out the machine.

Three different feed control settings, combined with the various tractor operating speeds, provide a broad range of spreading rates. These spreading rates permit manure application rang-

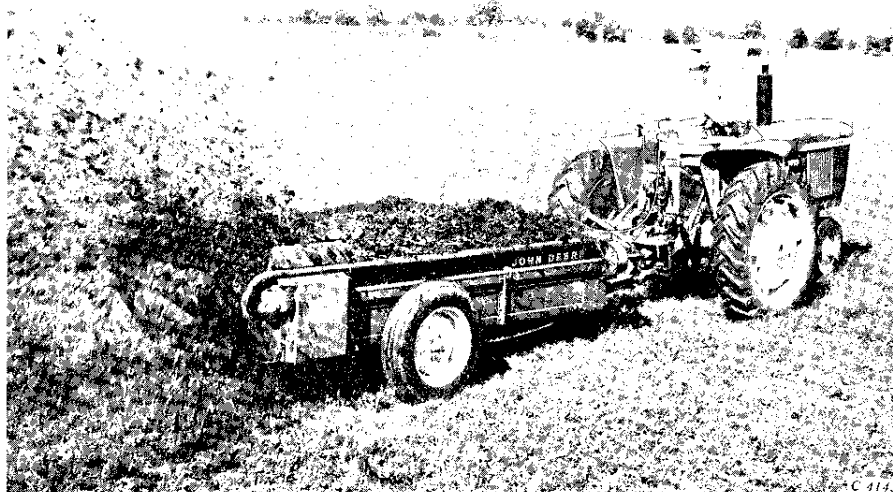
ing from light to heavy to suit the needs of the operator.

Two optional controls are available for the beater-widespread and bed conveyor. A nylon rope attached to the tractor seat enables the operator to control the bed conveyor feed rate and to engage or disengage the beater-widespread without leaving the tractor seat. A hand control located at the rear of the spreader is also available.

Either a 9- or 18-inch beater-widespread is available as optional equipment.

When the spreader is equipped with a 9-inch beater-widespread, either a slip clutch attached to the end of the PTO shaft or shear bolts in the side shaft hubs may be used to protect the drive mechanism. When the spreader is equipped with the 18-inch beater-widespread, the slip clutch must be used.

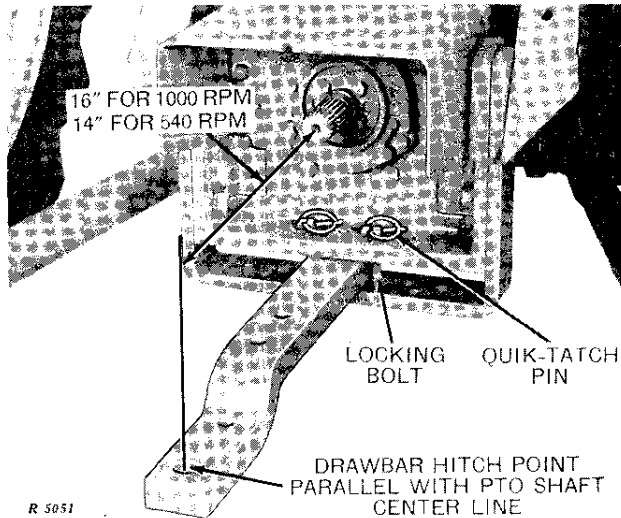
The axle can be positioned in any one of three different locations. This permits the operator to vary the weight of the spreader at the tractor hitch point according to his particular needs.



OPERATION

PREPARING THE TRACTOR

ADJUSTING TRACTOR DRAWBAR

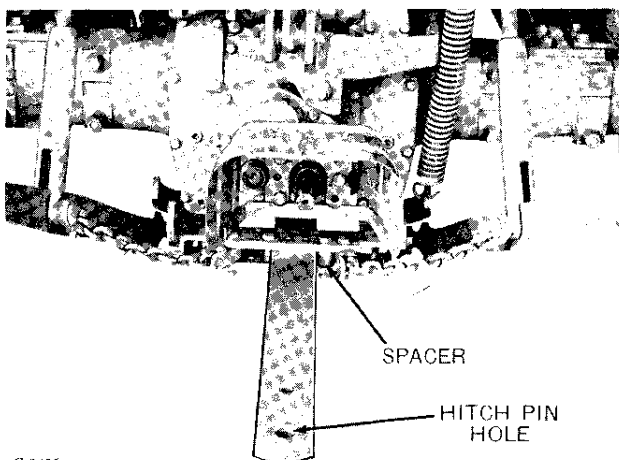


Place the drawbar in the extended position, with the hole in the end of the drawbar 14 inches (540 rpm operation) or 16 inches (1000 rpm operation) from the end of the PTO shaft.

Lock the drawbar in its crossbar, parallel with the centerline of the powershaft, placing the locking bolts on either side of the drawbar.

NOTE: If the tractor has offset drawbar, offset should always be down for PTO work.

SPECIAL DRAWBAR FOR JOHN DEERE 40 UTILITY, 420, 430, 520, 530, AND 1010 SERIES TRACTORS



John Deere 40 Utility, 420, 430, 520, 530, and 1010 Series Tractors require a special heavy-duty drawbar when used with the 33 Spreader.

Holes are provided in this drawbar to furnish correct spacing for either 540 or 1000 rpm PTO drive.

Some tractors may require the use of a spacer over the locking bolt to align the drawbar with the tractor power take-off shaft. This spacer is furnished with the special drawbar.

It may be necessary to reinforce the drawbar on early-model tractors for which a heavy-duty type is not available.

For details on how to adjust the drawbar on a particular model tractor, refer to your tractor operator's manual.

FRONT END WEIGHTING

Maximum front end weighting must be used on John Deere M, MT, 40, 420, 430, and 1010 Tractors to insure sufficient front end stability.

Other tractors also should have sufficient weighting to make them stable for operation on hilly land or during other adverse conditions. See your tractor operator's manual.

REAR WHEEL WEIGHTING

Refer to your tractor operator's manual for proper wheel weighting instructions.

NOTE: Do not use rear wheel weights with John Deere M, MT, 40, 420, 430, and 1010 Tractors.

REAR WHEEL TREAD

Space the rear wheels of the tractor wide enough to insure adequate stability, particularly for hillside operation. See your tractor operator's manual.

TIRE INFLATION

Inflate the 9.00 x 24 rear tires on John Deere M, MT, 40, 420, and 430 Tractors to 18 pounds air pressure.

Check the front and rear tires on John Deere 1010 and all other tractors to be sure they are inflated according to the recommendations in the tractor operator's manual.

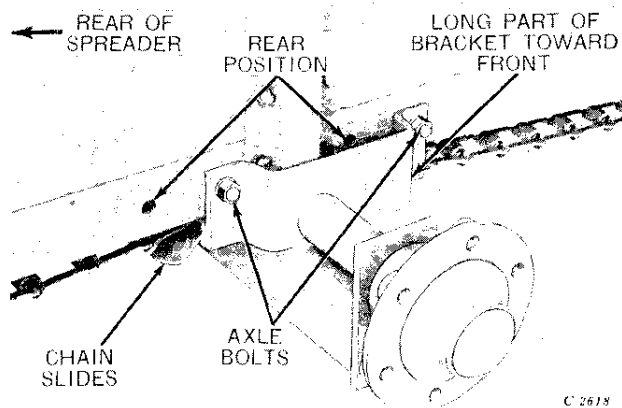
PREPARING THE SPREADER

POSITIONING AXLE

Because of the varying operating conditions which affect the rear wheel weighting requirements of the tractor, this spreader is equipped with an adjustable axle. Three positions (front, center, and rear) are available. Moving the axle will increase or decrease the spreader weight at the tractor hitch point as follows:

Axle position	Spreader weight at hitch point	
	Empty	With 7000-lb. load
Front	140 lbs.	563 lbs.
Center	165 lbs.	746 lbs.
Rear	195 lbs.	928 lbs.

NOTE: When spreader is to be used with John Deere M, MT, 40, 420, 430, and 1010 Tractors, or other makes of comparable size, the axle must be in the front position.



For most operating conditions, install the axle in the center position as shown above. In this position, the long part of each axle mounting bracket is toward the front of the spreader. The brackets are installed in the front set of holes in the bed.

To obtain the rear position, move the brackets to the rear and install them in the rear set of holes in the bed. The long part of each bracket is toward the front of the spreader.

To obtain the front position, turn the axle around so that the long part of each axle mounting bracket is toward the rear of the spreader. Install the bracket in the front set of holes in the bed.

NOTE: Be sure that the axle mounting brackets are installed in the same set of holes on each side of the bed.

Make certain that the conveyor chain is positioned over the axle, with the chains running over the slides welded to the axle.

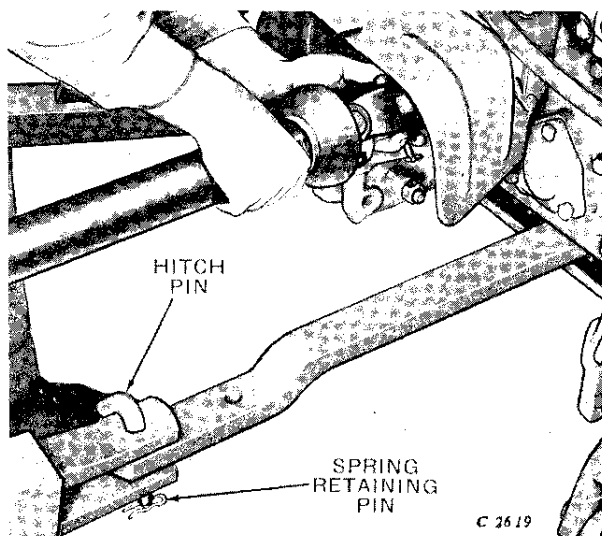
TIRE INFLATION

Check the tires to be sure they are inflated to correct pressure. The 7:50 x 20, 4-ply rib implement tires must be inflated to 20 pounds pressure and 7:50 x 20, 6-ply rib implement tires must be inflated to 32 pounds pressure. Truck or bus tires should be inflated according to the manufacturer's recommendations.

TRACTOR CONTROL

The spreader is operated by the tractor power take-off. For information concerning proper power take-off operation see your tractor operator's manual.

HITCHING TO TRACTOR



Connect the spreader hitch to the tractor drawbar before connecting the powershaft.

If spreader is equipped with hitch stand, use stand to raise spreader hitch into position. Before transporting the spreader, lock the hitch pin in place with the spring retaining pin. Raise hitch stand and secure in place with locking lug.

CONNECTING POWERSHAFT

The PTO operating speed of the tractor and spreader must be the same. The tractor half

of the powershaft will be equipped with six splines for 540 rpm operation or 21 splines for 1000 rpm operation.

Normally the spreader is equipped for 540 rpm operation. If the spreader is to be used with a tractor equipped for 1000 rpm PTO operation, it will be necessary to convert the PTO operating speed of the spreader, unless the tractor PTO drive can be converted easily. See pages 13 through 15 for converting the spreader from 540 to 1000 rpm operation.

CAUTION: Never connect a spreader designed for 540 rpm operation to a 1000 rpm tractor PTO.

After making the connection, check to be sure that the powershaft spinner shields are free to operate. Hardening of the paint may cause the shields to be frozen on the shaft temporarily.

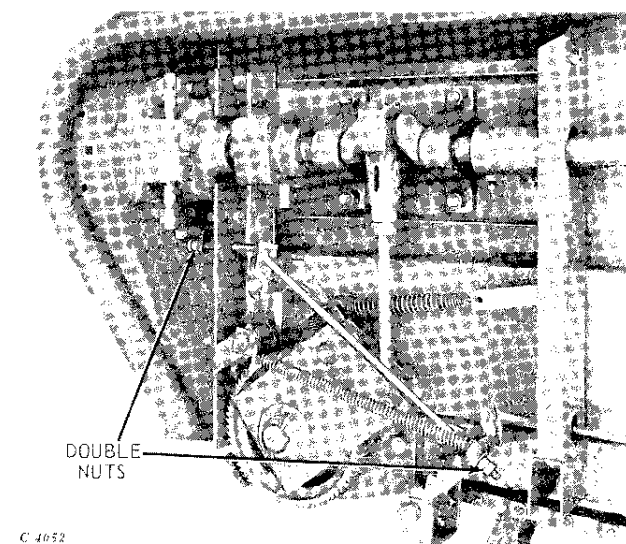
UNHITCHING FROM TRACTOR

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

SPREADER CONTROLS

BEATER-WIDESPREAD CONTROL

Tractor-Seat Feed Control (Optional)



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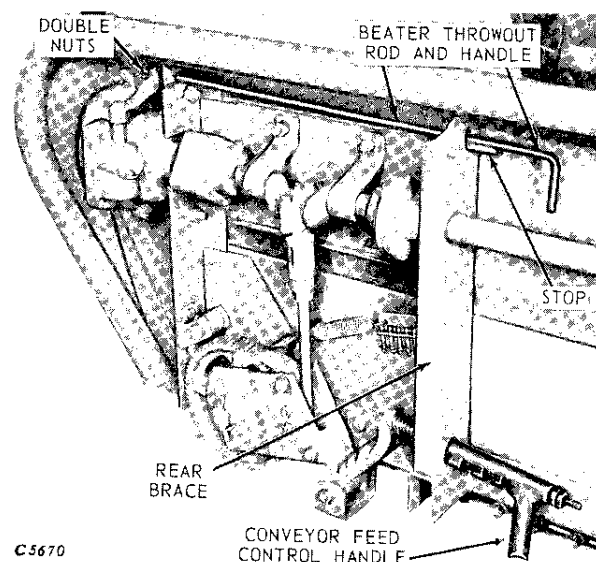
The beater-widespread is controlled by a tractor-seat feed control rope located at the front of the spreader. The beater-widespread is engaged in four of the feed control positions.

To disengage the beater-widespread, pull the control rope to the fourth position. If after the fourth pull of the control rope, the beater-widespread will not disengage, adjust the double nuts on the end of the beater throw-out rods until the beater-widespread is disengaged.

A fifth pull on the control rope re-engages the beater-widespread and returns the feed mechanism to neutral position.

NOTE: The beater-widespread must always be engaged before operating the bed conveyor.

Rear Feed Control (Optional)



(Guard Removed for Illustration Purposes Only)

The beater throwout rod, located at the rear right-hand side, is used to engage and disengage the beater-widespread.

To disengage, pull the control handle forward until the stop is directly against the rear brace as shown above. If, at any time, the beater-widespread will not disengage, adjust beater throwout rod as instructed on page 10. Both nuts must be located behind the beater throwout arm.

To engage, turn the handle until it points downward, as shown above, raise handle until stop clears the rear brace, and then push the handle to the rear.

NOTE: The beater-widespread must always be engaged before operating the bed conveyor.

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