

JOHN DEERE 34 AND 40 SPREADERS



JOHN DEERE

OPERATORS MANUAL JOHN DEERE 34 AND 40 SPREADERS

OMC19503 D8 English

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ENGLISH





TO THE PURCHASER

This manual provides the recommended procedures for operating, lubricating, and servicing your new John Deere 34 or 40 Spreader.

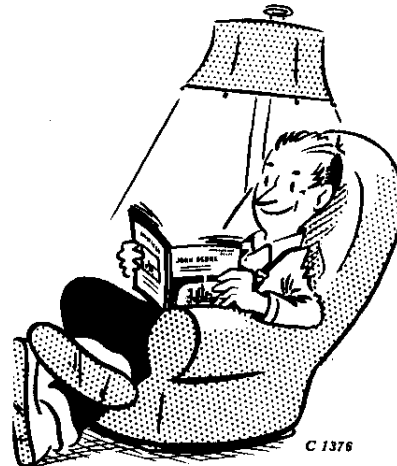
Make this manual your guide and do what it recommends. These instructions have been written specifically for these spreaders—other spreaders may operate differently. Do not rely on advice from others not familiar with these spreaders.

Before operating, adjusting, or cleaning your spreader, be sure to read the "Safety Rules" on page 11. Insist that they be followed by those working with you and for you.

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

Proper lubrication of your spreader is very important. Note the lubrication instructions on pages 16 and 17. 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.

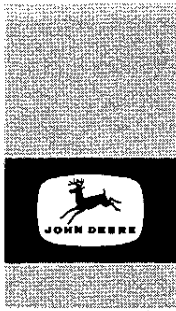


References in this manual to the right- and left-hand sides of the spreaders have been determined by standing at the rear of the spreader, facing the direction of travel.

The serial number plate is located on the front of the right side. For future reference, record the serial number in the space below.

Information concerning the warranty on this spreader will be found in your copy of the Delivery Receipt which you should have received from your dealer when the spreader was delivered to you.

JOHN DEERE 34 AND 40 SPREADERS	
Date Purchased	19
Spreader Serial No.	
<i>(To be filled in by purchaser)</i>	

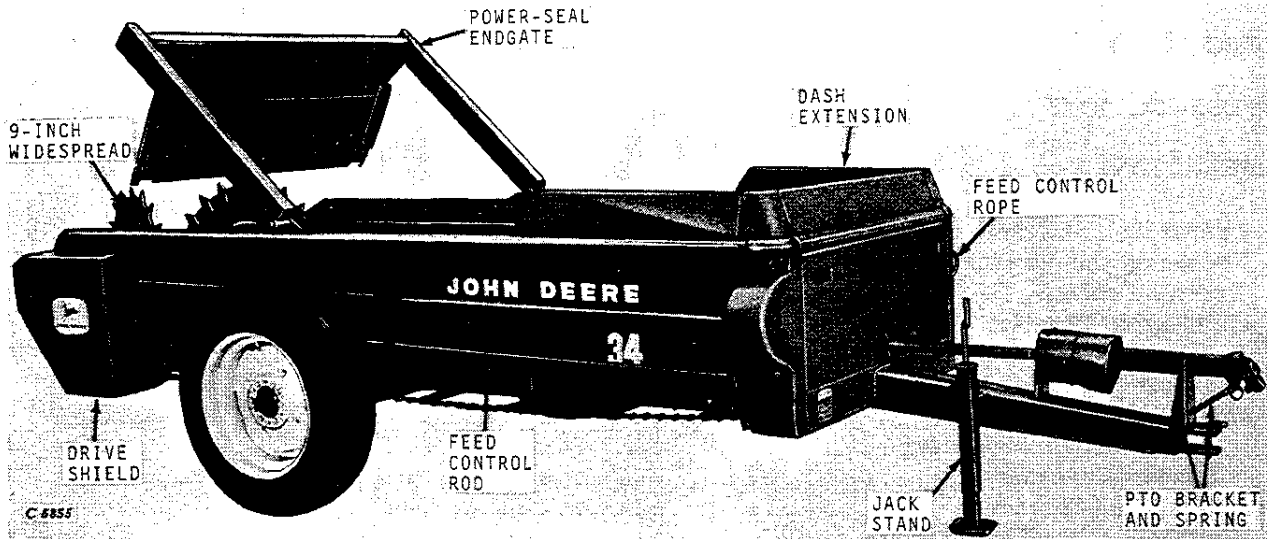


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DESCRIPTION



John Deere 34 Spreader with 9-Inch Widespread and Power-Seal Endgate

The John Deere 34 and 40 Spreaders are high-capacity, low-profile spreaders that fit under most barn cleaners. These spreaders are similar except for capacity. The 34 Spreader ASAE-rated capacity is 145 bushels while the 40 Spreader is 175 bushels.

The spreaders may be equipped for either 540 or 1000 rpm PTO operation which assures constant and even unloading regardless of ground conditions.

Five different control settings, combined with the various tractor operating speeds provide a wide range of spreading rates. All feed changes can be made from the tractor seat with the feed control rope.

The spreader drive train is protected by a spring clutch which eliminates the need for shear pins. If an obstruction prevents the spreader from operating, the clutch will slip with a loud clicking sound.

Three types of beaters are available: a 9- or 18-inch beater widespread, or a paddle beater with 12 replaceable paddles. An upper beater also is available as extra equipment for use with tough shed manure.

The single beater and bed conveyor operate from a single gear case and one roller chain. Two roller chains are used when the upper beater is used.

The beater can be stopped while the bed conveyor continues to clean out the spreader.

Two endgates are available to help contain semi-liquid manure.

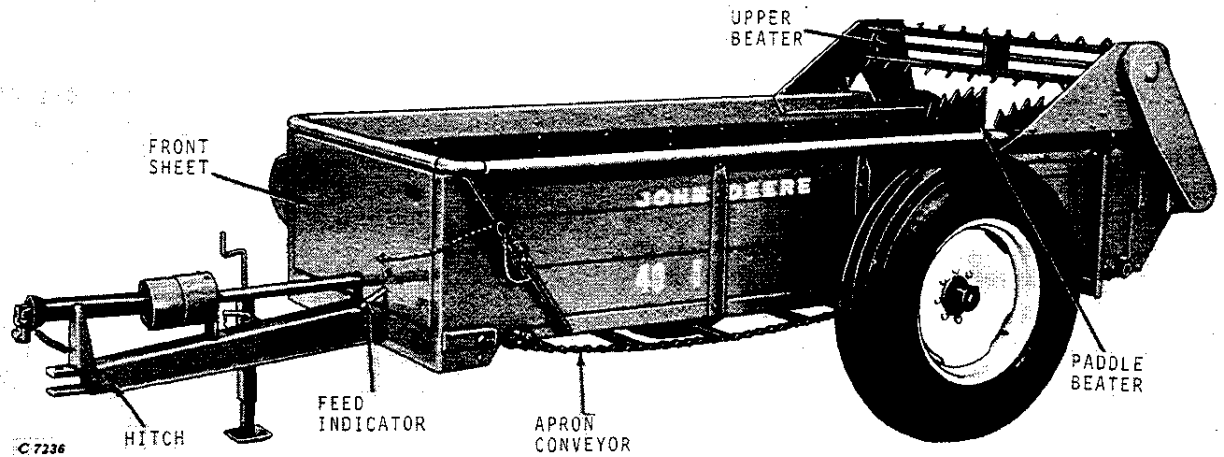
The power-seal endgate which operates in front of the beater is operated by the tractor remote hydraulic cylinder. The endgate may be stopped at any height through its range to "meter" semi-liquid manure to the beater.

The rear endgate, with door and controls, is recommended for use with either the 9- or 18-inch beater widespreads. A rope, conveniently positioned near the tractor seat, opens the endgate door.

The three-position axle allows the operator to vary the weight of the spreader at the hitch point to suit his particular tractor.



SPECIFICATIONS



John Deere 40 Spreader with Upper Beater and Paddle Beater

RATED CAPACITY (ASAE):

- 34 145 Bushels
- 40 175 Bushels

OVER-ALL LENGTH:

- 34 199 Inches
- 40 209-3/16 Inches

OVER-ALL WIDTH:

- 34 82 Inches
- 40 93 Inches

OVER-ALL HEIGHT:

- Basic Machine**
- 34 45-3/4 Inches
- 40 47-1/2 Inches
- With Upper Beater**
- 34 60-1/4 Inches
- 40 62 Inches

WHEEL TREAD WIDTH:

- 34 73-1/4 Inches
- 40 79-3/4 Inches

INTERIOR BOX DIMENSIONS:

- Width:**
- 34 52-1/4 Inches
- 40 52-1/4 Inches
- Depth (to top of flare):**
- 34 20 Inches
- 40 24 Inches
- Length (dash flap to end of floor):**
- 34 112 Inches
- 40 122 Inches

WEIGHT EMPTY:

Equipped with 9-Inch Widespread, Drop-Center Rim Wheels, Less Tires and Tubes:

- 34 1477 Pounds
- 40 1615 Pounds

OPERATION 540 or 1000 rpm PTO

BED CONVEYOR SPEED (at 540 or 1000 rpm):

- 1st Setting Bed Conveyor in Neutral with Beater Engaged
- 2nd Setting 3.33 Feet Per Minute
- 3rd Setting 6.66 Feet Per Minute
- 4th Setting 9.99 Feet Per Minute with Beater Engaged
- 5th Setting 9.99 Feet Per Minute with Beater Disengaged

BEATERS:

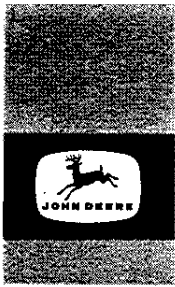
- Widespreads 9- or 18-Inch Drum with 27-Inch Diameter Flighting
- Paddle 3-1/2-Inch Tube with 27-Inch Paddle Diameter

Speed of Widespreads or Paddle 300 rpm (either 540 or 1000 rpm PTO)

Upper Beater (Extra Equipment). 13-3/8-Inch Pin and Bar-Type Beater

Speed of Upper Beater 205 rpm (either 540 or 1000 rpm PTO)

(Specifications and design subject to change without notice.)



OPERATION

PREPARING THE TRACTOR

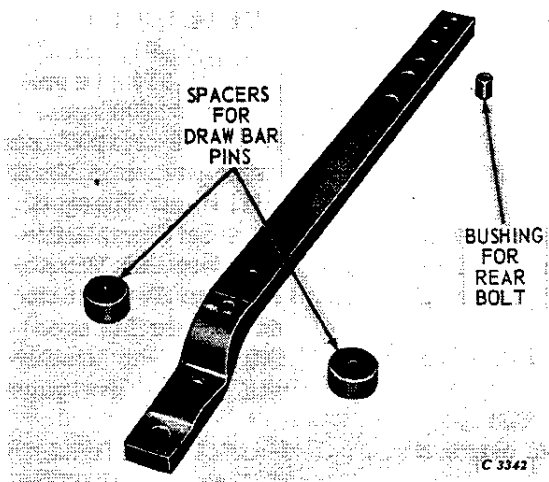
TRACTOR REQUIREMENTS

These Spreaders may be used with the John Deere 1020, 2020, 2510, 3010, 3020, 4010, 4020, 5010, and 5020 Tractors.

Other makes and models of tractors equal in size to the John Deere tractors mentioned above may be used if the drawbar support and drawbar will support at least a 1500-pound static vertical drawbar load.

CAUTION: Regardless of the tractor used, always transport a loaded spreader at a slow speed (10 mph or less) and be extra careful when using the spreader in hilly country.

DRAWBAR FOR 2510 AND 3010 TRACTORS



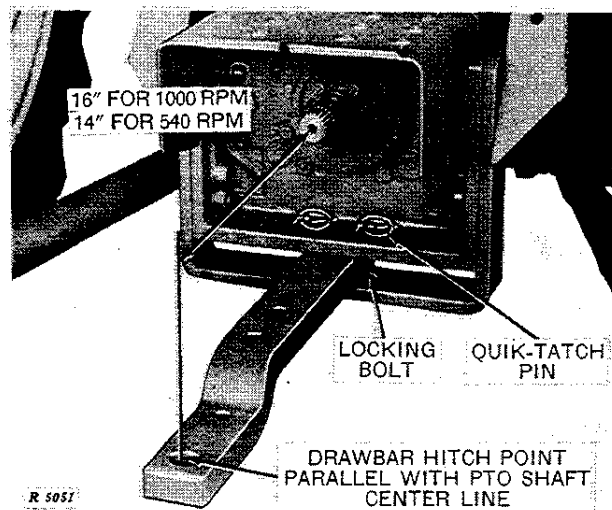
If the 4010 Tractor drawbar has not been installed on the 2510 or 3010 Tractor, attach tractor drawbar (AC13006C) to tractor as follows: The hitch pin hole in the drawbar must be in line with the tractor PTO shaft and must be 14 or 16 inches from the end of the shaft as shown in illustration in the right column.

Fasten front of drawbar to tractor with drawbar pin previously removed and 1-inch O.D. x 1-1/2-inch bushing over drawbar pin.

Install 2-1/2-inch O.D. x 1-1/4-inch spacers over pins at each side of drawbar to secure drawbar directly in line with tractor PTO shaft.

Replace master PTO guard on tractor if it has been removed.

POSITIONING DRAWBAR



Position the tractor drawbar as shown with the offset in the drawbar down. The distance from the end of the tractor power take-off to the drawbar hitch pin hole must be 14 inches for 540 rpm PTO operation or 16 inches for 1000 rpm PTO operation. Lock the drawbar in its crossbar, parallel with the centerline of the powershaft, placing the locking bolts on either side of the drawbar.

CAUTION: Do not attempt to operate the spreader-tractor combination unless the PTO operating speed of the spreader and tractor are the same.

NOTE: The 5010 and 5020 Tractors are equipped with 1000 rpm PTO drive only. Be sure the spreader is equipped for 1000 rpm PTO operation, when used with these tractors.

Do not transport the spreader unless the hitch pin is in place and secured with the spring locking pin.

HYDRAULIC EQUIPMENT

If the spreader is equipped with the power-seal endgate, which is operated by the tractor remote hydraulic cylinder, the tractor must be equipped with at least one tractor selective control valve and one ASAE standard 8-inch stroke remote hydraulic cylinder. See your tractor operator's manual for information regarding operating the remote cylinder.

FRONT END WEIGHTING

Provide sufficient weighting to stabilize tractor when operating on hilly land or other adverse conditions. See your tractor operator's manual for front end weighting information.

REAR WHEEL SPACING AND WEIGHTING

Adjust wheel spacing, for maximum stability, as shown in tractor operator's manual.

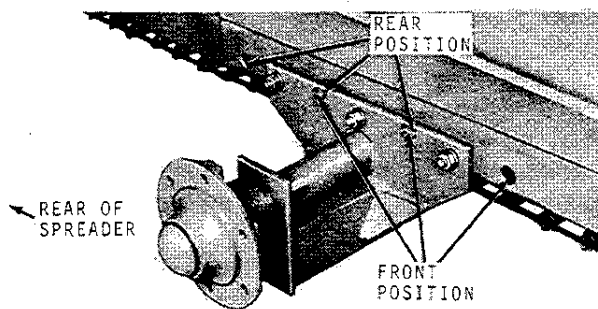
Add rear wheel weights or liquid ballast to the tractor as recommended in the tractor operator's manual.

TIRE INFLATION

Check front and rear tires on the tractor to be sure they have been inflated according to the recommendations in the tractor operator's manual.

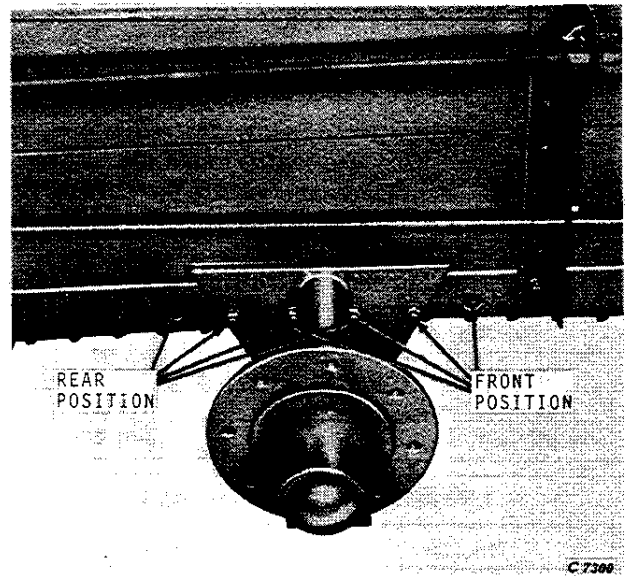
PREPARING THE SPREADER

POSITIONING AXLE



34 Spreader Axle in Center Position

Because of the varying operating and load conditions, three axle positions are available on the spreaders. Moving the axle forward will decrease the spreader weight at the hitch point, moving the axle to the rear will increase the



40 Spreader Axle in Center Position

weight. The following chart shows the spreader weight at the hitch point for each of the three settings:

Spreader Weight at Hitch		
Axle Position	Empty	Maximum Load
Front	34	170 Lbs.
	40	215 Lbs.
Center	34	203 Lbs.
	40	235 Lbs.
Rear	34	235 Lbs.
	40	254 Lbs.

For most operating conditions, use the axle in the center position as shown.

To use the rear position, attach the axle to the bed sill at the holes marked "rear position" in the illustrations.

To use the front position, attach the axle to the bed sills at the holes marked "front position" in the illustration above.

NOTES: 1. Be sure the axle mounting brackets are installed in the same set of holes on each side of the bed.

2. Do not use the front axle position when spreader is equipped with upper beater or rear endgate.

3. Do not use the rear axle position when spreader is used with a John Deere 1020 or 2020 Tractor.

4. Do not use the rear axle position when spreader is used with a John Deere 2510 Tractor.

6 Operation

PREPARING THE SPREADER—Continued

TIRE INFLATION

The tire sizes listed below are the only sizes recommended for use with these spreaders. Check to be sure tires are inflated according to the chart below.

34 Spreader Tire Inflation	
Tire Size	Inflation Pressure
7.50-20, 4-Ply	24 psi
7.50-20, 6-Ply	36 psi
*9.00-20 (Used)	65 psi

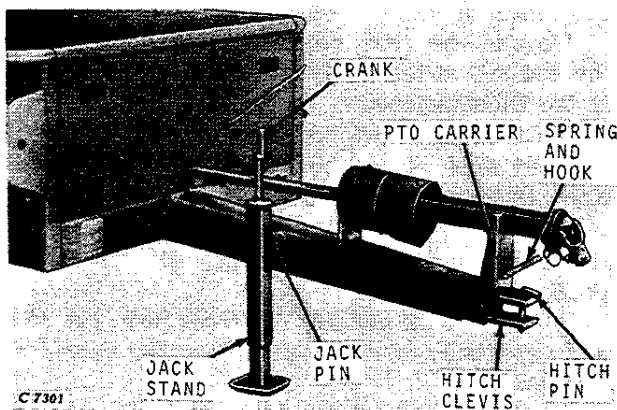
40 Spreader Tire Inflation	
Tire Size	Inflation Pressure
11.25-24, 8-Ply Rib Implement Tire (new)	28 psi
*10 x 20 (Used)	65 psi
*11 x 20 (Used)	65 psi
*12 x 20 (Used)	65 psi

**Used truck or bus tires may be installed if they have sound bodies.*

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



Carefully back the tractor into position. Make

sure the jack pin is in the spreader jack stand. Using the crank on the jack stand, raise or lower the spreader hitch into position to engage the tractor drawbar. Insert the drawbar between the upper and lower parts of the spreader hitch clevis. Install the hitch pin through the upper clevis, drawbar, and lower clevis. Secure the hitch pin with the spring locking pin. Raise jack stand, remove jack pin, and rotate jack to transport position. Replace jack pin and Quik-Lock pin previously removed.

CAUTION: Do not transport the spreader unless the spring locking pin is installed in the hitch pin and the jack stand is in the transport position.

CONNECTING POWERSHAFT

The PTO operating speed of the tractor and the 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.

CAUTION: Never hook up a spreader equipped for 540 rpm operation to a 1000 rpm tractor PTO.

After making the connection, check to be sure the powershaft spinner shields are free to operate.

Attach the spring and hook to the upper edge of the PTO carrier and push the carrier down onto the hitch.

CONTROL ROPES

Attach the spring clip for the feed control rope to the rear of the tractor, at a location that is within easy reach of the operator. The spring clip will release the control rope if the operator should forget to disconnect it.

If the spreader is equipped with a rear endgate, attach the endgate control rope to the tractor in the same manner. Keep the ropes separated as widely as possible to avoid pulling the wrong rope when operating the spreader.

The world's best safety device is a careful operator.

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