

# JOHN DEERE 2500 SPRING-RESET SEMI-INTEGRAL MOLDBOARD PLOW

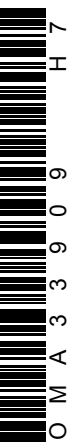


## OPERATORS MANUAL JOHN DEERE 2500 SPRING-RESET SEMI-INTEGRAL MOLDBOARD PLOW

OMA33909 H7 English

**OMA33909 H7**

LITHO IN THE U.S.A.  
ENGLISH






## To the Purchaser

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This new plow was carefully designed and manufactured to give years of dependable service. To keep it operating efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or maintenance. Read "Contents" to learn where each section is located.

 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective Metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.

In addition to the equipment furnished with your plow, attachments are available to help you do a

better job in special conditions. These are described in the attachments section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the plow will travel when in use.

Record your plow serial number in the space provided on page 36. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your plow requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this plow appears on your copy of the purchase order which you should have received from your dealer when you purchased the plow.



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# Safety Suggestions

## GENERAL

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The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this plow was designed.

You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

Remember! An accident is usually caused by someone's carelessness, neglect, or oversight.

## TRANSPORTING

While transporting the plow on a public road, follow safety instructions outlined under "Transporting."

Use care when transporting across rough ground.

## HYDRAULIC OIL

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping hydraulic oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Always relieve pressure in the hydraulic system before working with hydraulic system components.

## OPERATION

To avoid injury, always be careful while operating a tractor and plow.

Never permit any person other than the operator on the tractor.

Never ride or permit others to ride on the plow.

Allow the rear wheel to clear the furrow before making sharp turns at end of field.

Stay clear of spring-reset standard while plowing.

If standard hangs up in a partially-tripped position, stay clear of reset path. Use a long pole or other tool to remove obstruction.

Lubrication of standard linkage and keeping springs tight helps prevent standards from hanging up during tripping.

Do not grease, oil, or adjust the plow while it is in motion.

Maintain proper adjustment of coulter to avoid interference with plow bottom during reset.

Always lower the plow to the ground when not in use.

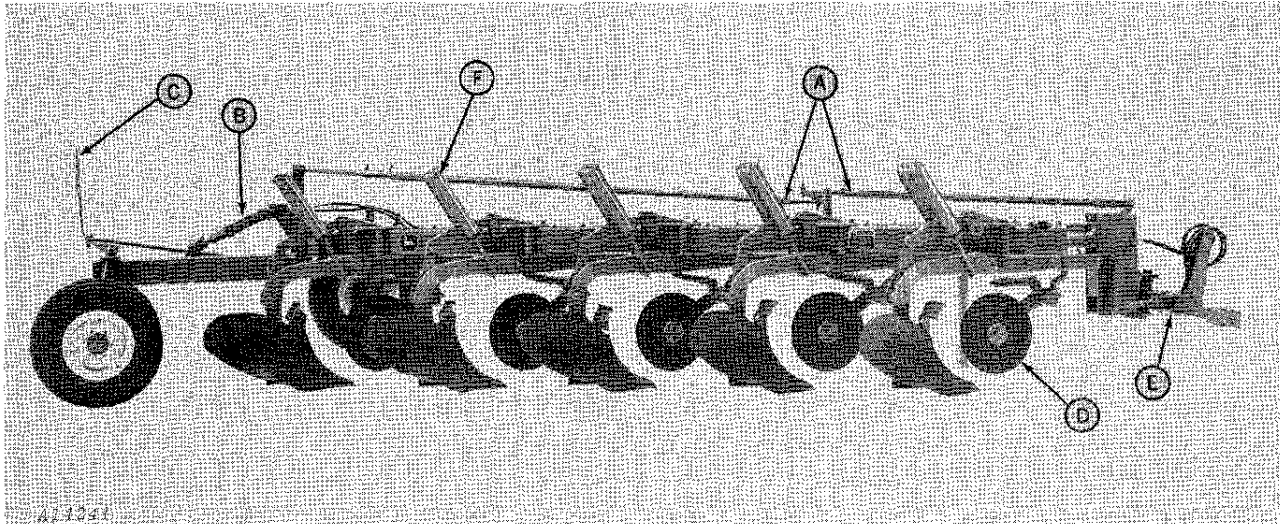
Always lower the support stand to support the plow before unhitching from the tractor.

Lower plow to within 2 inches (50 mm) of ground before releasing Quik-Coupler latch handles.

If spray can paint is used for protecting plow bottoms to be put in storage, be careful when discarding empty can. Do not incinerate or puncture can.



# Identification Views

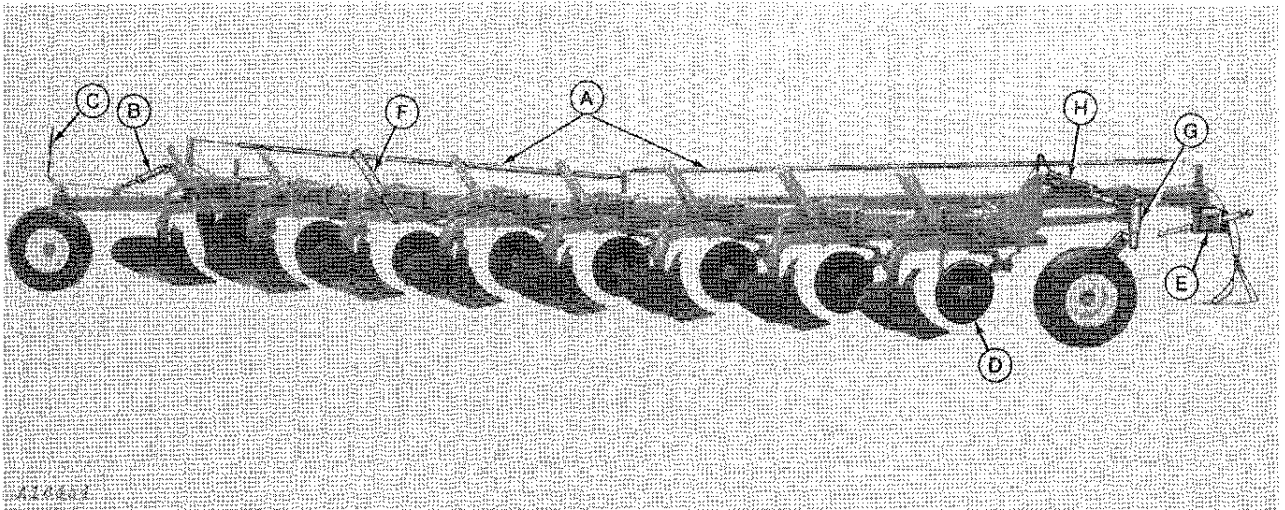


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- A—Steering Pipes
- B—Rear Wheel Hydraulic Cylinder
- C—SMV Emblem

- D—Rolling Coulter
- E—Double Pivot Hitch and Crossbar
- F—Spring Assembly

*John Deere 2500 In-Furrow 5-Bottom Spring-Reset Semi-Integral Moldboard Plow*



- A—Steering Pipes
- B—Rear Wheel Hydraulic Cylinder
- C—SMV Emblem
- D—Rolling Coulter

- E—Hitch
- F—Spring Assembly
- G—Caster Wheel Assembly
- H—Caster Wheel Hydraulic Cylinder

*John Deere 2500 On-Land 8-Bottom Spring-Reset Semi-Integral Moldboard Plow*



# Preparing for Use

## GENERAL

On the 2500 Spring-Reset Plows, the bottoms are held in the plowing position by spring pressure. The spring linkage allows the standards and bottoms to trip back and up to clear large obstructions or to float over small obstructions. The bottoms return to the plowing position without stopping the tractor. When the standard is fully tripped, the share point will raise 15 inches (380 mm) above the bottom of the furrow.

### IMPORTANCE OF PROPER ADJUSTMENT

A well adjusted plow: pulls lighter, furrow slices are uniform in width and depth, covers trash and leaves the soil ready to be worked down into the desired seedbed.

Improper adjustment results in rapid wear and possible breakage of parts, and inefficient operation.

### PREPARING THE PLOW

#### Plow Bottoms

The polished surfaces of the plow bottoms have been painted with protective black paint.

In most cases it will wear off quickly upon contact with the soil. In soils where the black paint will not wear off, remove with diesel fuel.

If the plow is not to be used immediately, protect the polished surfaces by applying a coat of John Deere Plow Bottom Black Paint. If the plow is to be put in storage for a considerable length of time, see page 30.

#### Bolts and Set Screws

Before starting to work with a new plow or one which has been stored, be sure all bolts and set screws are tight and all cotter pins spread to keep them from falling out. Be sure the bolts that hold the plow bottoms are drawn up tight.

Check for loose bolts, screws, or parts when lubricating the plow. Loose bolts are easily lost or cause excessive wear on parts, resulting in possible damage to the plow. See bolt torque chart, page 30.

### Tire Inflation

Make certain the plow tires are inflated to pressures shown below:

Wheel	Recommended New Implement or New or Used Auto Tires	Inflation Pressure
Front Furrow (On-Land)	9.5L x 14, 6 Ply Rating 11.L x 14, 6 Ply Rating	36 psi (2.5 bar) (2.5 kg/cm <sup>2</sup> ) 36 psi (2.5 bar) (2.5 kg/cm <sup>2</sup> )
Rear Furrow	9.5L x 14, 6 Ply Rating 11.L x 14, 6 Ply Rating	36 psi (2.5 bar) (2.5 kg/cm <sup>2</sup> ) 36 psi (2.5 bar) (2.5 kg/cm <sup>2</sup> )
Gauge	11.L x 14, 6 Ply Rating	36 psi (2.5 bar) (2.5 kg/cm <sup>2</sup> )

### Lubrication

Be sure plow has been properly lubricated. See Lubrication Charts on pages 27-29.

### PREPARING AND ADJUSTING THE TRACTOR

For complete tractor operating instructions, refer to your tractor operator's manual.

### Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual.

### Tractor Drawbar

Set the tractor drawbar in the short high position.

## Rear Wheel Setting

### Tractor Wheel in Furrow

Adjust rear wheels of the tractor equidistant from the center line of the tractor to inside edge of tire. The wheels can be set at 28, 30, or 32 inches (710 mm, 760 mm or 815 mm) from the center line of the tractor to the inside of the tire.

### Tractor Wheels on the Land

The rear wheels should be set equidistant from the center line of the tractor to insure maximum performance.

When operating the tractor with all wheels on the land, set the rear wheels (Depending on size of plow) to leave at least four inches (100 mm) between the furrow wall and the outside edge of the right tractor tire.

*NOTE: When tractor is equipped with dual rear wheels, set wheels in narrowest available setting. See your tractor operator's manual.*


## Front Wheel Setting

On wide-front-end tractors, to get proper field maneuverability when working with tractor wheel in furrow, set the front wheels to conform to rear-wheel setting, center-to-center of tread, or set at least 2 inches (50 mm) wider than rear tires, measured from center of tractor to inside edge of tire.

## Front End Weighting

Tractor front-end weighting is necessary for maximum field performance.

The amount of front weight required will have to be determined by field operating conditions and the gear in which the tractor is operated.

 **CAUTION:** In this regard it is important to note that when the tractor is operated in lower gears, under 4 mph (6.5 km/h), maximum permissible front-end weighting is necessary to avoid front-end tip-up. If more front-end stability is required, see "Vertical Hitch Adjustments" on page 13-14.

## Rear Wheel Weighting

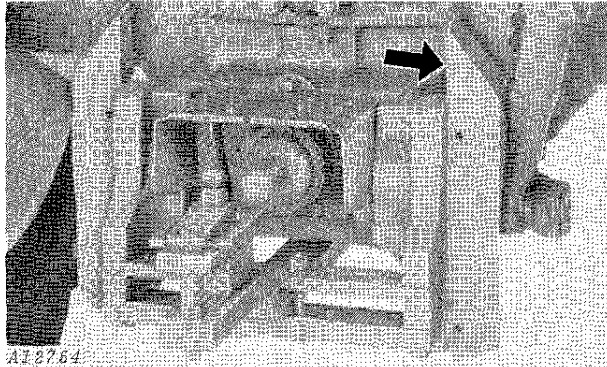
Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor.

Observe the tracks of the rear wheels. When the tractor is pulling its rated load, the soil between the tire lugs should be broken or shifted. If too much weight has been added, the tread marks will be clear and distinct. If too little weight has been added, the tread marks will be entirely obliterated. See your tractor operator's manual.

### 3-Point Hitch and Hydraulic System

Once the plow is attached to the tractor 3-point hitch, the depth or load is maintained by the tractor hydraulic system according to the setting of the rock-shaft selector lever. See your tractor operator's manual for complete explanation of the hydraulic system.

#### Sway Blocks



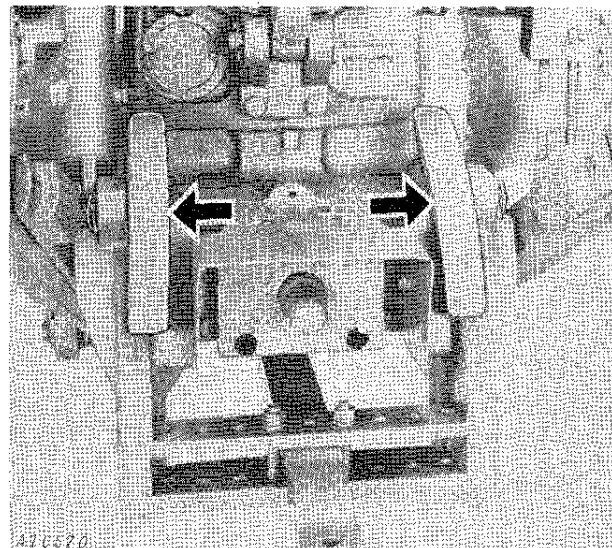
*Sway Blocks in Down and Wide Position*

Set the sway blocks in the down and wide position as shown above on 4030, 4040, 4230, 4240, 4430, 4440, 4630, 4640, 4840 and 6030 tractors for on-land or in-furrow plows in normal ground conditions.



*Sway Blocks in Down and Narrow Position*

Set the sway blocks in the down and narrow position as shown above on 4030, 4040, 4230, 4240, 4430, 4440, 4630, 4640, 4840 and 6030 tractors for on-land or in-furrow plows in extreme rocky conditions.



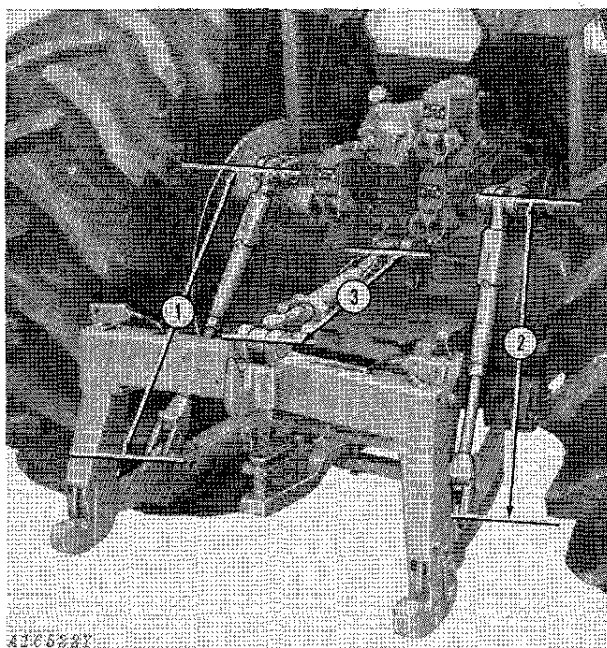
*Sway Blocks in Up and Wide Position*

Set the sway blocks in the up and wide position (bold arrows) on 8430 and 8630 tractors.



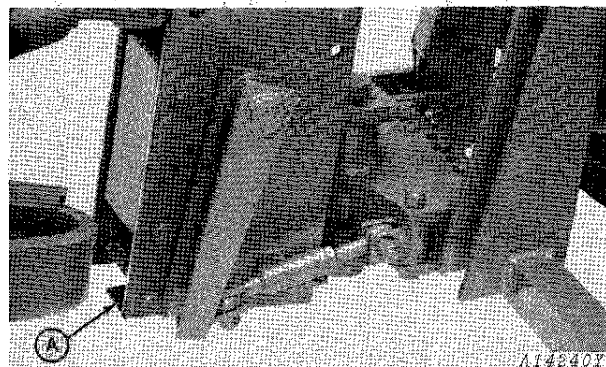
## Link Lengths

Set the lift links and center link as shown in the chart below. Measure from center of pins as shown.



Quik-Coupler 3-Point Hitch (Category 3)

**IMPORTANT:** The 3-Point Hitch or the Quik-Coupler use the same link dimensions.



A—Hitch Leaf Spring

*In-Furrow Plows*

**IMPORTANT:** When using a plow with the in-furrow hitch, do not set center link in the shortest setting. This will damage the plow hitch leaf spring (A).

### DIMENSIONS

Tractor	*Left Lift Link (Dimension "1")	IN-FURROW *Right Lift Link (Dimension "2")	*Center Link (Dimension "3")	*Left Lift Link (Dimension "1")	ON-LAND *Right Lift Link (Dimension "2")	**Center Link (Dimension "3")
4030, 4230 4040, 4240	30-in. (760 mm)	29-in. (735 mm)	26-1/2 in. (675 mm)	30-in. (760 mm)	30-in. (760 mm)	26-1/2 in. (675 mm)
4430 4440	34-in. (865 mm)	33-in. (840 mm)	26-1/2 in. (675 mm)	34-in. (865 mm)	34-in. (865 mm)	26-1/2 in. (675 mm)
4630 4640	36-in. (915 mm)	35-in. (890 mm)	31-1/2 in. (800 mm)	36-in. (915 mm)	36-in. (915 mm)	31-1/2 in. (800 mm)
8430, 8630	37-in. (940 mm)	36-in. (915 mm)	31-1/2 in. (800 mm)	37-in. (940 mm)	37-in. (940 mm)	31-1/2 in. (800 mm)
6030 4840	40-in. (1 015 mm)	39-in. (990 mm)	31-1/2 in. (800 mm)	40-in. (1 015 mm)	40-in. (1 015 mm)	31-1/2 in. (800 mm)

\*For 4030, 4040, 4230, 4240, 4430 and 4440 tractors with long draft links add 1-1/2 inches (40 mm) to the left and right lift link dimensions and 2-1/2 inches (65 mm) to the center link dimensions.

\*\*When using Quik-Coupler for on-land plows, the tractor center link should be turned in as far as possible.

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