1250 Integral Moldboard Plow

JOHN DEERE

OPERATORS MANUAL

1250 Integral
Moldboard Plow

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ENGLISH

To the Purchaser

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 service. 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.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

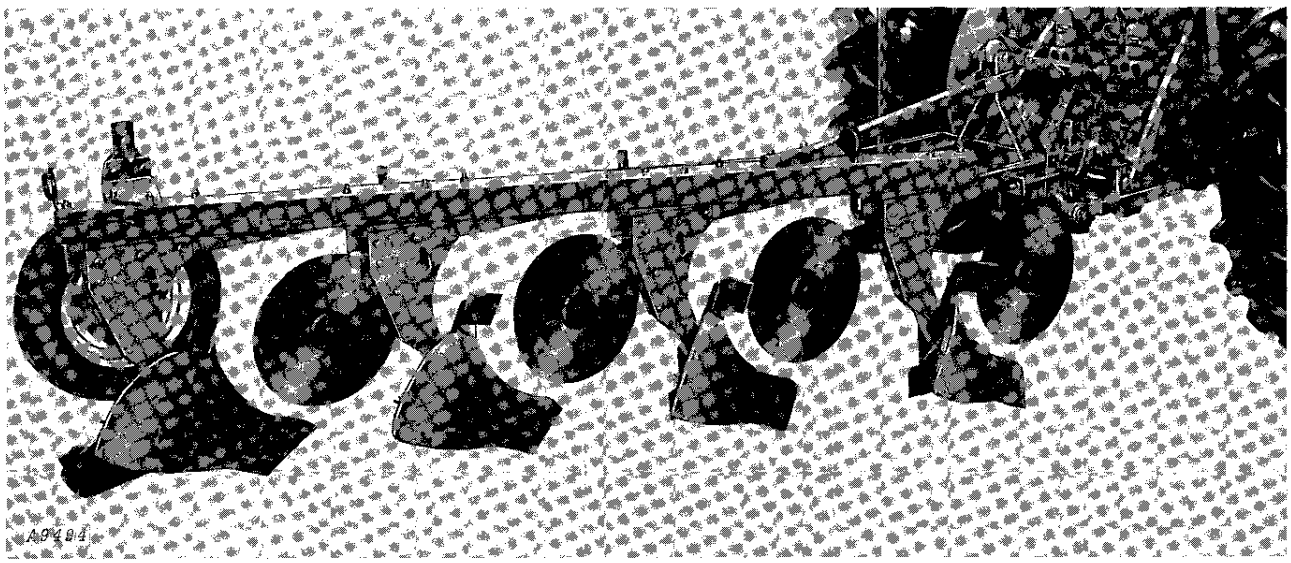
In addition to the equipment furnished with your plow, attachments are available to help you do a better job in special conditions. These are described in the special equipment section of this manual and can be purchased from your John Deere dealer.

"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 34. 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.

Contents



John Deere 1250 4-Bottom Integral Moldboard Plow

Safety Suggestions

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

However, investigation of thousands of farm accidents show that careless use of farm machinery causes nearly 1/3 of all farm accidents. 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.

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

For tractor stability and operator safety, tractor front end weights are required. See page 4 under "Front Ballast Information."

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

Never ride or permit others to ride on the plow.

While transporting the plow on a public road, follow safety suggestions outlined under "Transporting." See page 14.

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

Escaping hydraulic fluid 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 fluid 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 fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

When the plow is in a raised position, be sure rockshaft and remote cylinder operating levers are not bumped or touched by anyone.

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

Always lower the plow when not in use and move the selective control lever back and forth to relieve pressure in cylinder and hoses.

Operation

IMPORTANCE OF PROPER ADJUSTMENT

Your new plow is fully adjustable and, when properly adjusted to operate in the type soil and field conditions on your farm, it will do a good job of plowing at a minimum of expense. A well-adjusted plow pulls lighter; its furrow slices are uniform in width and depth; it covers trash; and it leaves the soil in proper condition to be worked down into the best-type seedbed.

Improper adjustment results in rapid wear, 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 is not necessary to remove the black paint because 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 cup or gun grease. If the plow is to be put in storage for a considerable length of time, see pages 17 and 18.

Bolts and Set Screws

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

A good practice is to 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 serious damage to the plow. See page 27 for bolt torque information.

Tire Inflation

If plow is equipped with gauge wheel, inflate to 28 psi (1.9 bar).

Lubrication

Be sure plow has been properly lubricated. See Lubrication Charts on pages 15 and 16.

PREPARING AND ADJUSTING THE TRACTOR

General

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

Tractor Drawbar

Set the tractor drawbar in the short high position and pin it to the extreme left side of the support.

Belt Pulley

If tractor is equipped with a belt pulley, remove pulley.

Power Shaft Shield (2010, 2510, 2520, 3010, 3020, 4000, 4010, 4020, 4030, 4230, 4320 and 4430 Tractors)

When using these plows with these tractors, the powershaft master shield must be removed from the tractor.

CAUTION: Be sure the PTO guard is in place any time the master shield is removed. Replace the master shield immediately upon removal of the plow. Be sure the master shield is installed whenever the powershaft is used.

Tire Inflation

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

Rear Wheel Setting

Adjust rear wheels of the tractor equidistant from the center line of the tractor to inside edge of tire. The distance between the center line of the tractor and the inside edge of the tire should be from 25 to 29 inches (635 to 737 mm) for the 16" (406 mm) plow and 27 to 31 inches (686 to 762 mm) for the 18" (457 mm) plow.

Front Wheel Setting

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

Front Ballast Information

Tractor front end stability is necessary for safe and efficient operation. Therefore, it is important that the proper amount of weight be installed on the front of the tractor as recommended in your tractor operator's manual.

⚠ CAUTION: Ballast recommendations provide for adequate transport stability. Additional front ballast may be required for satisfactory field operation. See tractor operator's manual.

Instructions

Step 1 - Find your plow model in the IMPLEMENT CODE TABLE and enter its code on line 1 above, right.
Step 2 - Enter an Implement Code for each attachment on line 2.
Step 3 - Add these codes to obtain Total Implement Code.
Step 4 - Select additions or subtractions from tractor operator's manual.
Step 5 - Refer to tractor operator's manual to determine required tractor front ballast.

IMPLEMENT CODE

	3-Btm.	4-Btm.	5-Btm.
1250 Basic Plow	65	119	170
Add for Gauge Wheel	9	13	14
Add for Trash Boards	2	4	6
Add for Hydraulic Landing	2	3	3

	EXAMPLE	YOUR CODE
Step 1	119	Step 1
Step 2	13	Step 2
	4	
	3	
Step 3	139 (sub.)	Step 3
Step 4		Step 4
Step 5	(total)	Step 5

Our example is a four bottom 1250 Plow (119) with Gauge Wheel (13) Trash Boards (4) with Hydraulic Landing (3). Refer to your tractor operator's manual for steps 4 and 5 for your recommended front end ballast.

IMPORTANT: Refer to tractor operator's manual: 1. If the total implement code exceeds the maximum implement code listed for a particular tractor model, the implement-attachment combination is not recommended for that tractor. 2. The total load on any tractor wheel due to the weight of the implement-attachment combination and tractor equipment, should not exceed the carrying capacity of the tractor tires.

⚠ CAUTION: When operating the tractor in third or lower gears, front-end weights up to the maximum permissible, regardless of size and equipment of plow, are recommended to avoid possible front-end tip-up.

For maximum permissible ballast, see your tractor operator's manual.

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.

The ideal amount of added weight can be determined by observing 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.

Liquid Weight

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

Cast-Iron Weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.

For maximum ballast, refer to your tractor operator's manual.

3-Point Hitch and Hydraulic System

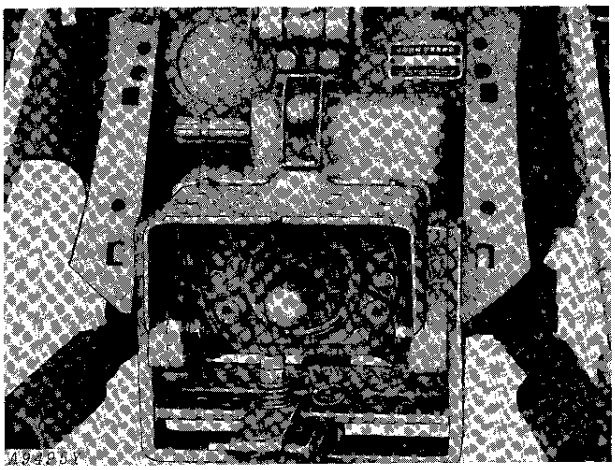
Once the plow is attached to the tractor 3-point hitch, the depth or load is maintained by the tractor hydraulic system according to the setting of the rockshaft selector lever. See your tractor operator's manual for complete explanation of the hydraulic system.

Instructions for preparing the hydraulic system and 3-point hitch are similar except that on the 2010 tractor the hydraulic system must be adjusted for parallel lift arm operation. See your tractor operator's manual for instructions on setting the 2010 Tractor for parallel lift arm operation.

Rockshaft Selector Lever

For most plowing conditions, set the selector lever in "LD" (middle) position. In very light draft soil or in irregular surface conditions, "L" or "Max" position may give better performance.

Sway Blocks



Sway Blocks in Upper Position

Sway blocks must be attached in upper position as shown in illustration above. This will eliminate side sway when the plow is raised for transport, but will permit lateral flexibility when working.

Link Lengths

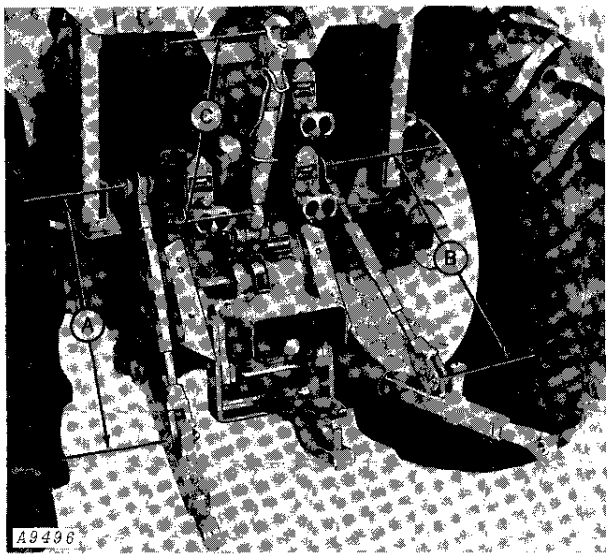
It is important that the length of the lift link and center link be adjusted properly. Measure from center to center of pins as indicated in illustration.

The chart below shows the recommended starting lengths of the links for various tractors used with these plows.

NOTE: A slight increase or decrease in the recommended length may be necessary in other than normal conditions and in very deep or very shallow plowing. Final adjustment should be made in the field.

When using a 2010 Tractor, be sure it is equipped with AT16625 Center Link.

The lift link measurements for 1520, 2010, and 2020 Tractors shown below are for tractors equipped with rigid draft links. If these tractors are equipped with telescoping draft links, set the lift links 2-1/4 inches shorter than the measurements given below.



Link Length Check Points

Tractors	Left Lift Link Dimension "A" Inches	(mm)	Right Lift Link Dimension "B" Inches	(mm)	Center Lift Link *Dimension "C" Inches	(mm)
1520 Series	26	(660)	26-1/2	(673)	26-1/4	(666)
1530 Series	26	(660)	26-1/2	(673)	26-1/4	(666)
2010 Row-Crop	25-7/8	(657)	26-1/4	(666)	24-1/2	(622)
2010 Row-Crop Utility	23	(584)	23-3/8	(594)	24-1/2	(622)
2020 RU	25-1/2	(648)	26-1/2	(673)	25-1/2	(648)
2020 HU	25-1/2	(648)	26-1/2	(673)	25-1/2	(648)
2030 Series	25-1/2	(648)	26-1/2	(673)	25-1/2	(648)
2510 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
2520 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
2630 Series	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
3010 Row-Crop	27	(686)	28	(711)	25-1/2	(648)
3010 Row-Crop Utility	20-1/4	(514)	21-1/4	(539)	27	(686)
3010 Standard	27	(686)	28	(711)	25-1/2	(648)
3020 Row-Crop	29	(749)	30	(762)	25-1/2	(648)
3020 Row-Crop Utility	20-1/4	(514)	21-1/4	(539)	27	(686)
3020 Standard	29	(749)	30	(762)	25-1/2	(648)
4000 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4010 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4010 Standard	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4020 Row-Crop**	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4020 Standard**	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4030 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4030 Standard	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4230 Row-Crop	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4230 Standard	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4320 Row-Crop**	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4320 Standard	28-1/2	(724)	29-1/2	(750)	25-1/2	(648)
4430 Row-Crop	30-7/8	(809)	31-7/8	(834)	28-1/8	(714)
4430 Standard	30-7/8	(809)	31-7/8	(834)	28-1/8	(714)

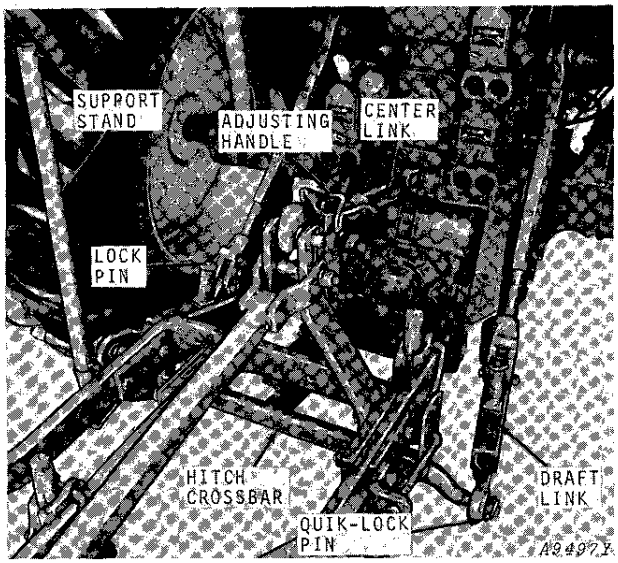
**Center link dimensions in the chart are for tractors equipped with a Quik-Coupler. If the Quik-Coupler is not used, add 3/4-inch (19 mm) to these center link dimensions.*

***On 4020, 4230, and 4320 tractors factory equipped with 18.4-38 or 20.8-34 tires, use the following link length dimensions: left lift link, 30-7/8 inches (774 mm); right lift link, 31-7/8 inches (780 mm); center lift link, 28-1/8 inches (714 mm).*

ATTACHING PLOW TO TRACTOR

3-Point Hitch

Place rockshaft selector lever in the "D" or "Zero" position for better control when attaching.



Slip draft link ball socket over hitch pins and lock in place with "Quik-Lock" pins provided.

If tractor is equipped with telescoping draft links, close the draft links either by raising and lowering the plow with the rockshaft control lever or by backing up the tractor.

Be sure lock pins snap into place.

Connect center link to plow mast. Before connecting, it may be necessary to change length of center link with the adjusting handle. After connecting, reset center link to recommended length as shown in chart on page 6.

Raise support stand to highest setting.

NOTE: If plow is equipped with hydraulic landing attachment, install cylinder and hoses as outlined on pages 10 and 11.

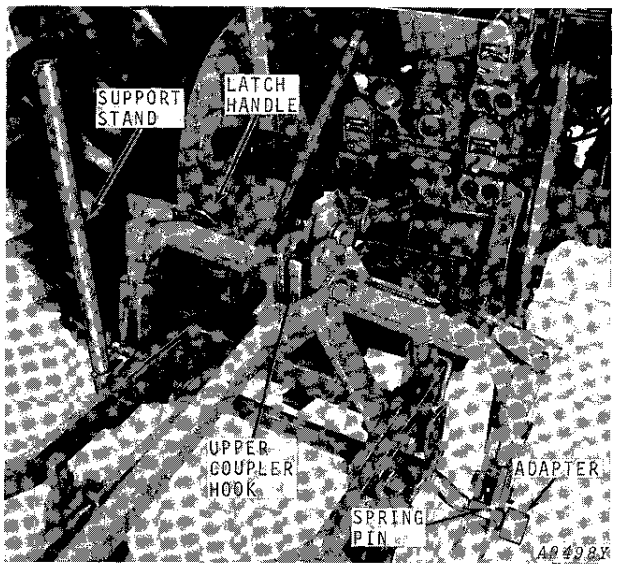
Quik-Coupler

Slide the hitch adapters over the plow hitch pins.

Drive spring pins through adapters and hitch pins until they are flush with the surface of the adapters.

Be sure the rockshaft selector lever is in the "D" or "Zero" position.

Be sure the latches on the Quik-Coupler are in the released position.



The height of the coupler should be regulated by the rockshaft control lever so the coupler will clear the front coulter shank and so the upper hook will pass under the mast spacer as the tractor is backed slowly.

Raise the coupler with the tractor rockshaft control lever until the hitch pin adapters are resting in the coupler lower hooks.

The Quik-Coupler with the straight rod spring-loaded latches automatically latch the hitch pins in place by the spring-loaded latches as the coupler receives the weight of the plow.

When the spring-loaded latches are properly locked, the indicator rod will protrude through the slot in the coupler frame adjacent to the latch rods.

To latch the Quik-Coupler with the latch handles, push down on the handles after the coupler receives the weight of the plow.

When the latches are properly locked, the latch handles will be horizontal and against the coupler frame.

Raise support stand to highest setting.

NOTE: If plow is equipped with hydraulic landing attachment, install cylinder and hoses as outlined on pages 10 and 11.

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