

4200 INTEGRAL TWO-WAY MOLDBOARD PLOWS

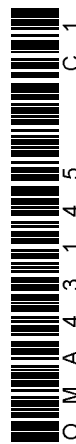


OPERATORS MANUAL 4200 INTEGRAL TWO-WAY MOLDBOARD PLOWS

OMA43145 C1 English

JOHN DEERE DES MOINES WORKS
OMA43145 C1


LITHO IN THE U.S.A.
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.

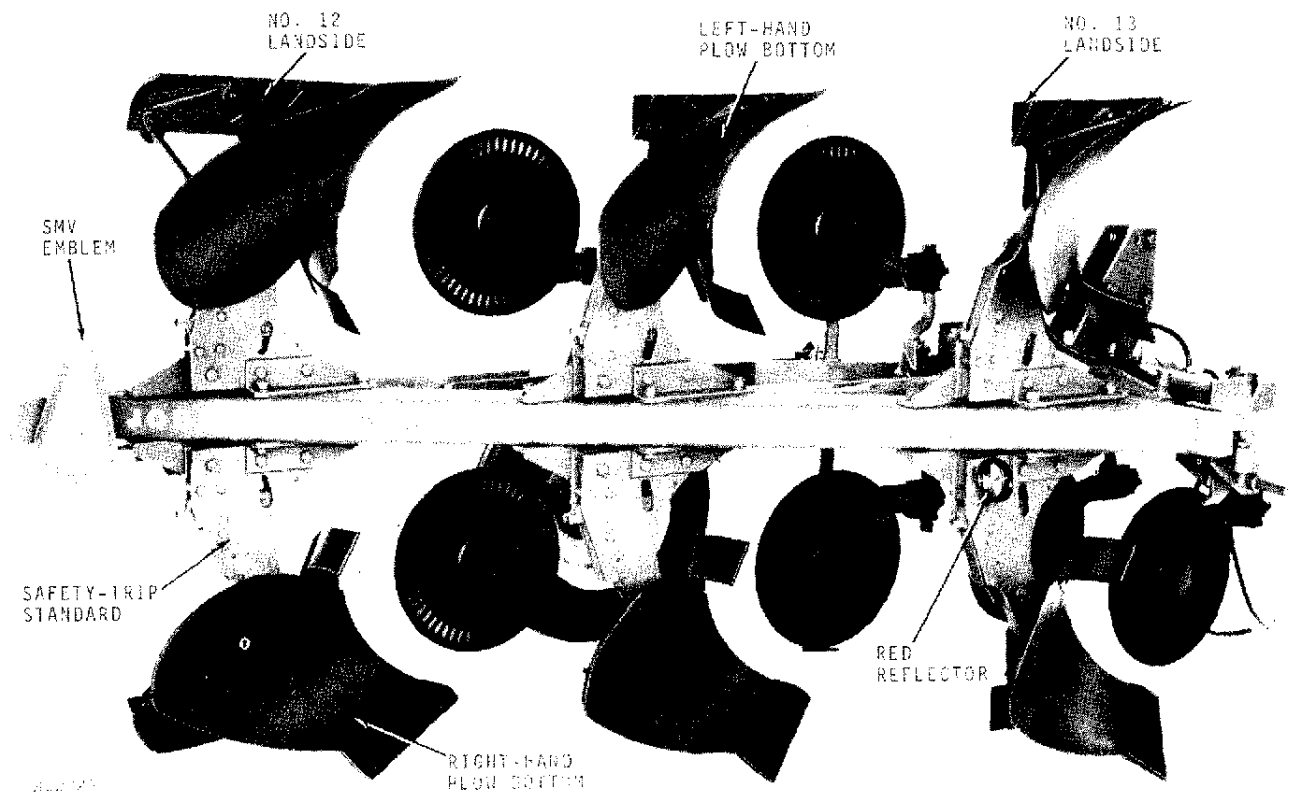
In addition to the equipment furnished with your plow, attachments are available to help you do a better job in special conditions. These are described in

the attachment 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 essential plow information 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.



John Deere 4200 Series Integral Two-Way Moldboard Plow - Three Bottom



Contents

Page	
2-3	Safety
4-8	Preparing for Use
9-11	Attaching and Detaching
12	Transporting
13-19	Operating Adjustments
20	Field Adjusting Plow
21-25	Attachments
26-27	Lubrication
28-30	Service
31-33	Trouble Shooting
34	Specifications
35	Index



Safety

TRANSPORT SAFELY

2-3

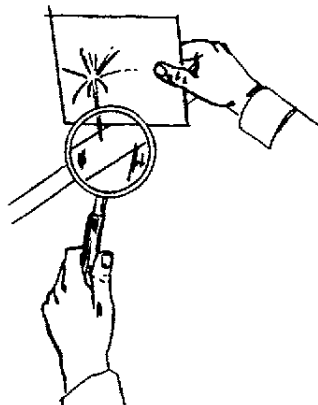
Use required tractor front end weights for optimum tractor stability. See page 6 under "FRONT BAL- LAST."

Transport the plow at a maximum speed of 10 mph (16 km/h). Do not exceed. Reduce speed when traveling over rough ground.

Never travel at any speed which does not permit adequate control of steering and stopping.

When transporting the plow on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations for proper use. Various safety lights and devices are available from your John Deere dealer.

AVOID HIGH PRESSURE LEAKS



H35336

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

If injured by escaping fluid, 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.

MOUNTING TIRES

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

OPERATE SAFELY

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

Never ride or permit others to ride on the plow.

When indexing plow be sure no one is in the plow indexing path.

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 to the ground when not in use.

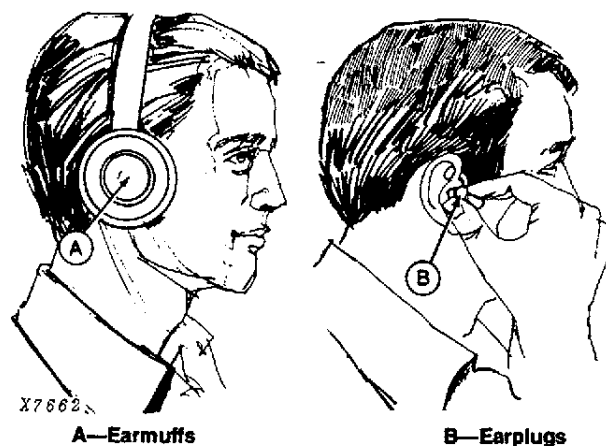
LUBRICATE THE PLOW SAFELY

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

DISPOSE OF SPRAY CANS SAFELY

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.

PROTECT AGAINST NOISE



Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



Preparing For Use

IMPORTANCE OF PROPER ADJUSTMENT

A well-adjusted plow pulls lighter; its furrow slices are uniform in width and depth; it covers trash; and 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

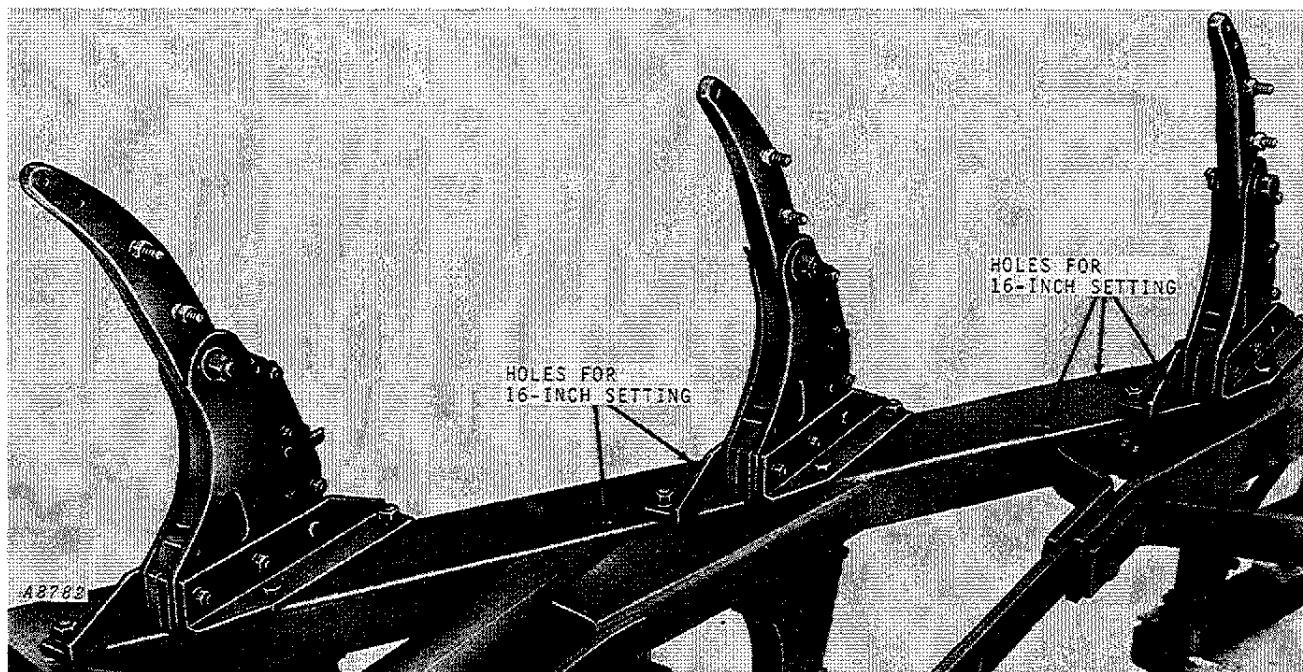
Frame Spacing

Your plow can be set at either 16- or 18-inch (400 or 450 mm) spacing.

The illustration below shows the standards in the 18-inch (450 mm) spacing. To change the spacing, remove bolts and move the standards forward.

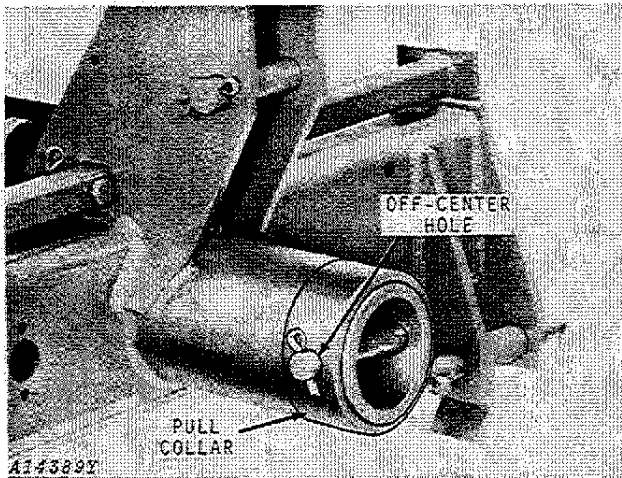
The first standard remains in the same position for either 16-inch or 18-inch (400 or 450 mm) setting.

NOTE: When frame spacing has been changed and bolts replaced, be sure to tighten bolts to the specified torque. See chart on page 28.



Plow Set for 18-Inch (450 mm) Frame Spacing

Hitch Frame Adjustment



Play between the hitch frame and the standard frame is adjusted by a pull collar with an off-center drilled hole. Turning the pull collar around positions the hitch frame closer to the standard frame, reducing play.

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 John Deere Plow Bottom Black Paint.

Tire Inflation

Check tire on gauge wheel to be sure it is inflated to 248 kPa (2.5 bar) (36 psi) of air pressure.

Lubrication

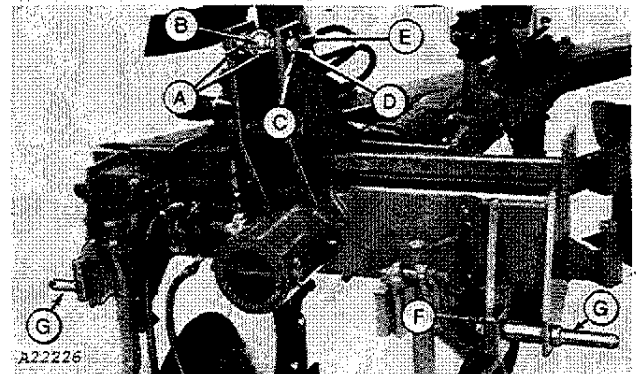
Be sure plow has been properly lubricated. See Lubrication on pages 26 and 27.

Bolts and Set Screws

Be sure that all bolts and set screws are tight and all cotter pins are spread. Check the bolts that hold the plow bottoms to be sure they are tight.

See torque chart on page 28.

Mast and Hitch Pins (Category 2 without Quik-Coupler)

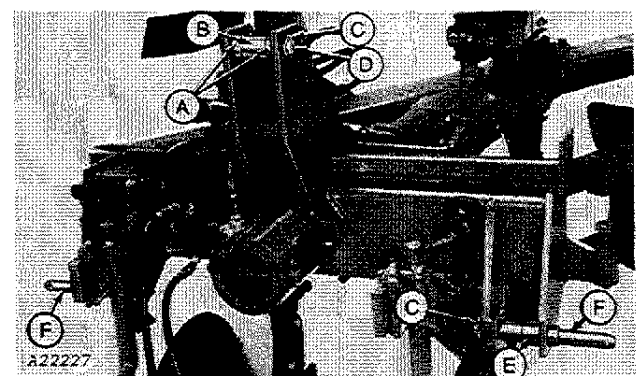


- | | |
|--------------|------------------|
| A—Spacers | D—Mast Pin |
| B—Hitch Ball | E—Rear Mast Hole |
| C—Cotter Pin | F—Quik-Lock Pin |
| | G—Hitch Pin |

Position hitch ball (B) and spacers (A) between mast plates. Insert mast pin (D) through mast plates, spacers and hitch ball. Use the front hole (as shown) for all tractors other than the 2640 Tractor. Use rear mast hole (E) when plow is to be used with a 2640 Tractor. Secure with cotter pins.

Insert hitch pins (G) through pin supports with short shoulder toward the inside. Secure hitch pins with Quik-Lock pins (F).

Mast and Hitch Pins (Category 3N/2 without Quik-Coupler) (4440 Tractors Only)



- | | |
|--|--|
| A—Spacers | D—Mast Pin |
| B—Bushing 1-1/4" (30 mm)
O.D. x 2" (50 mm) Long | E—Bushing 2" (50 mm)
O.D. x 1" (25 mm) Long |
| C—Quik-Lock Pin | F—Hitch Pins |

Position bushing (B) and spacers (A) between mast plates. Insert mast pin (D) through mast plates, bushing and spacers. Secure with cotter pin and Quik-Lock pin.

Insert hitch pins (E) through pin supports and bushings (D) with short shoulder toward the inside. Secure hitch pins with Quik-Lock pins (C).

PREPARING THE TRACTOR


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

Tractor Drawbar

Remove tractor drawbar.

Power Take-Off

Remove the power take-off master shield from the tractor when using front rolling coulters.


 **CAUTION: Be sure the rear power take-off guard is in place.**

Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual. Be certain total tractor - plow load does not exceed tire carrying capacity.

Front Ballast and Lift Capacity

The Implement Code System is used to determine front ballast requirements and to be sure the tractor has sufficient lift capacity for the plow and its attachments.

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

**IMPLEMENT CODE TABLE
4200 PLOW**

Implement or Attachment	3-Bottom		4-Bottom	
	16" (400 mm)	18" (450 mm)	16" (400 mm)	18" (450 mm)
Basic Shear-Bolt Plow	131	139	188	197
Basic Safety-Trip Plow	135	143	194	204
Gauge Wheel - Forward	10	10	10	10
Gauge Wheel - Rearward	-	-	14	14
Moldboard Extensions	5	5	8	8
Trash Boards	6	6	9	10
Coulters - Rear Only	7	8	10	10
Coulters - All Bottoms	22	23	30	32

Front Ballast

Instructions:

Step 1 - Find your plow model in the IMPLEMENT CODE TABLE and enter its code below.

Step 2 - Enter an Implement Code for each attachment.

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.

Example		Your Code	
Step 1	188	Step 1	
Step 2	10	Step 2	
	9		
Step 3	207 (sub)	Step 3	
Step 4		Step 4	
Step 5	(total)	Step 5	

Our example is a 4-bottom 16-inch (400 mm), shear bolt plow (188) with gauge wheel (10) and trash boards (9). This gives a total implement code of 207. Refer to 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 lower gears, which have a maximum speed of 4 mph (6.4 km/h) or less, maximum permissible front end weight is recommended regardless of size and equipment of plow, to maintain front end stability.**

Lift Capacity

The 4200 Plow has a high mast to provide indexing clearance and requires additional lift capacity.

For satisfactory field operation, Total Implement Code (Line 3) for your plow must be no greater than maximum code shown for your tractor in the Lift Capacity Table.

**LIFT CAPACITY CODE TABLE
4200 PLOW ON JOHN DEERE TRACTORS**

Tractor	Rockshaft Regular	Rockshaft with Lift Assist
2640 (Above Serial No. 341,000)	154	—
2940	198	—
4040	210	241
4240	240	291
4440	260	340

IMPORTANT: If total Implement Code (Line 3) exceeds the code shown in the lift capacity table for your tractor, the plow/attachment combination is not recommended for that tractor.

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.

See your tractor operator's manual.

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 (50 mm) wider than rear tires, measured from center of tractor to inside edge of tire.

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 set as indicated in the following chart.

Plow Frame Size	Distance From Center Line Of Tractor To Inside Edge of Tire
3-Btm. 16-Inch (400 mm)	28" (710 mm)
3-Btm. 18-Inch (450 mm)	30" (760 mm)
4-Btm. 16-Inch (400 mm)	28" (710 mm)
4-Btm. 18-Inch (450 mm)	30" (760 mm)

Dimensions given in the preceding chart are for average conditions. Decrease one inch (25 mm) when plowing shallower than eight inches (205 mm). Increase one inch (25 mm) when plowing over 12 inches (305 mm).

3-Point Hitch and Hydraulic System

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.

4-8

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com