

100 I AND 100 IRC SERIES INTEGRAL CHISEL PLOWS



JOHN DEERE

OPERATORS MANUAL 100 I AND 100 IRC SERIES INTEGRAL CHISEL PLOWS

OMN159219 K9 English

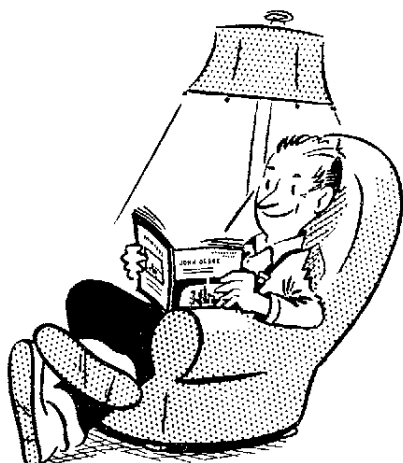
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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

This operator's manual has been carefully prepared and illustrated to provide the necessary information regarding assembly, operation, and adjustments so that you may obtain maximum service and satisfaction from your new chisel plow.



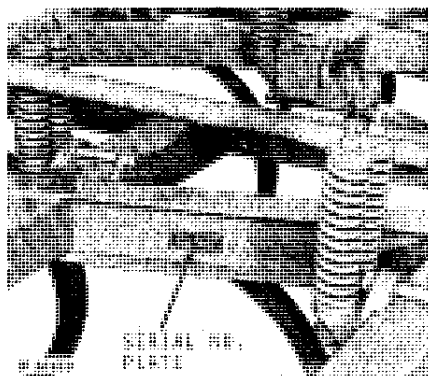
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Study this manual carefully and keep it handy in a safe place for future reference.

If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any questions that may arise regarding the operation of your chisel plow. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

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

SERIAL NUMBER



The serial number is on a plate located on the inside right-hand frame member.

Write this serial number in the space provided below for handy reference later.

**JOHN DEERE 100I and 100IRC
SERIES CHISEL PLOWS**

Model Number

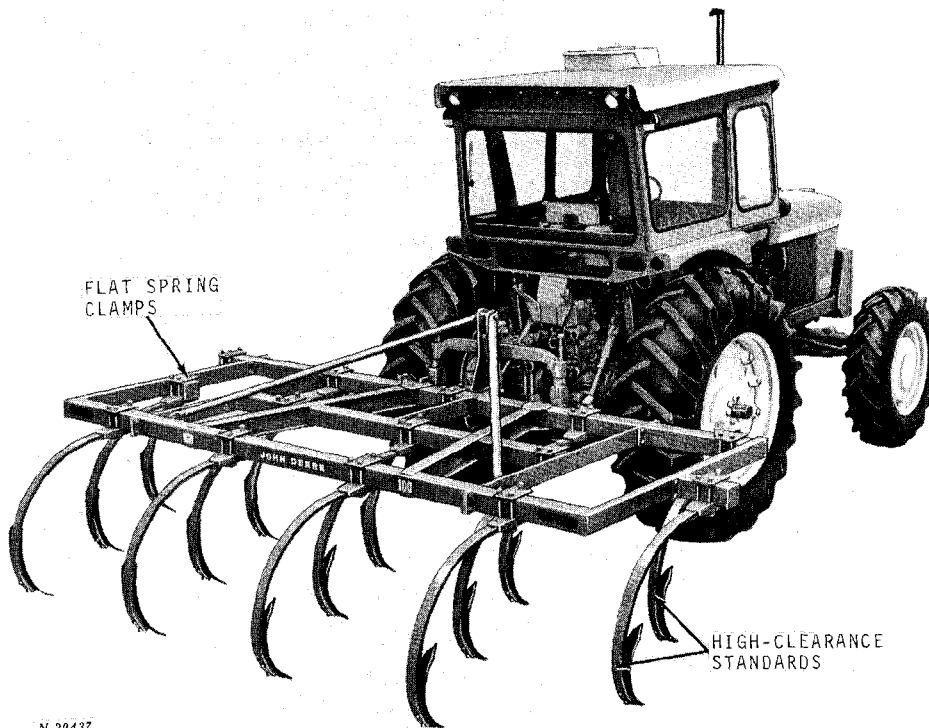
Serial Number

Date Purchased.

(To be filled in by purchaser)

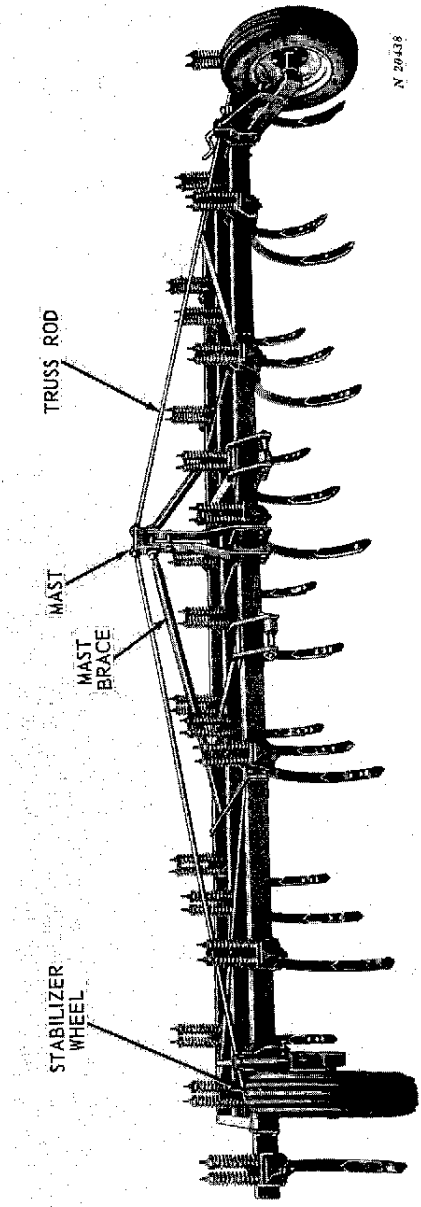
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N 20437

John Deere 114IRC Chisel Plow on 4020 Tractor



John Deere 1201 Chisel Plow

SPECIFICATIONS

| Model | Size | * Tractor Required | Stabilizer Wheels | Recommended Tooth Pattern |
|--------|---------|--|-------------------|---------------------------|
| 110I | 10-Foot | 4000, 4010, 4020, 4520, 5010 and 5020 | Special Equipment | Diagonal or Split |
| 110IRC | 10-Foot | 4000, 4020, 4520, 5010, and 5020 | None | Diagonal |
| 112I | 12-Foot | 4000, 4010, 4020, 4520, 5010, and 5020 | Special Equipment | Diagonal or Split |
| 112IRC | 12-Foot | 4000, 4020, 4520, 5010, and 5020 | None | Diagonal |
| 114I | 14-Foot | 4000, 4020, 4520, 5010, and 5020 | Special Equipment | Diagonal or Split |
| 114IRC | 14-Foot | 4000, 4020, 4520, 5010, and 5020 | None | Diagonal |
| 116I | 16-Foot | 4520, 5010, and 5020 | Special Equipment | Diagonal or Split |
| 116IRC | 16-Foot | 4520, 5010, and 5020 | None | Diagonal |
| 118I | 18-Foot | 4520, 5010, and 5020 | Regular Equipment | Split |
| 120I | 20-Foot | 4520, 5010, and 5020 | Regular Equipment | Split |

*Tractor must be equipped with a category 2, 3-point hitch, with or without Quik-Coupler, or with a category 3 Quik-Coupler, 3-point hitch.

FRAME

4 x 4-inch square tube bars—welded type of construction.

One basic 8-foot center frame with extensions to make the various models.

WEIGHTS

Front end weights are recommended on all tractors when operating the chisel plow. See your tractor operator's manual.

LIFT

The chisel plow is raised and lowered by the rockshaft of the tractor hydraulic system.

TOOL EQUIPMENT

100I CHISEL PLOW

Flat cushion-spring standards or
(Specifications and design subject to change without notice.)

flat spring standards, 1 x 2-inch, for heavy-duty sweeps, chisels, spikes, shovels, and furrow openers.

Sub-surface stiff standards for 30- and 36-inch sub-surface sweeps.

100IRC CHISEL PLOW

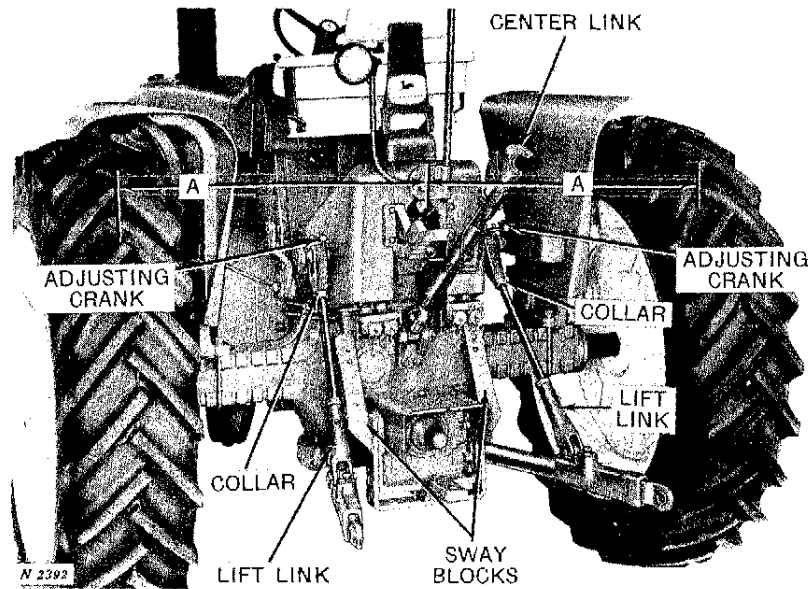
High-clearance flat spring standards or high-clearance heavy-duty flat cushion-spring standards for twisted shovels (regular equipment), heavy-duty sweeps, chisels, spikes and furrow openers.

ROD WEEDER ATTACHMENT (100I Only)

The 3000 Series Rod Weeder Attachment with hydraulic motor drive is available as special equipment on the 110I, 112I, 114I and 116I Integral Chisel Plows.

OPERATION

PREPARING THE TRACTOR



John Deere 4010 Tractor

See your tractor operator's manual for complete tractor operating and adjusting instructions.

TRACTOR WHEELS AND HITCH

The tractor should be equipped with a category 2, 3-point hitch, with or without Quik-Coupler or a category 3 Quik-Coupler 3-point hitch.

Locate the sway blocks in the category 2 upper position as shown above or in the category 3 upper position as shown on page 5. This will permit side sway when the chisel plow is working the ground.

Pin the drawbar in the short centered position.

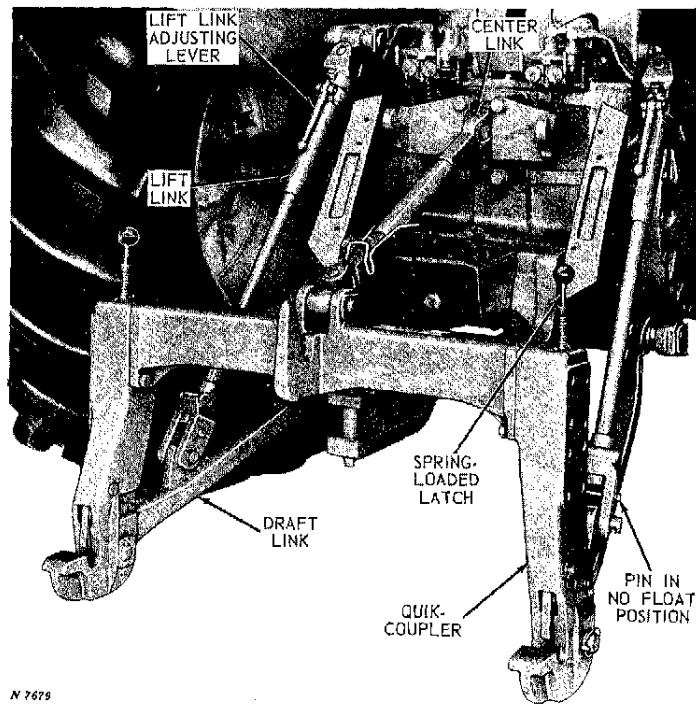
Set the wheels on the 4000, 4010, or 4020 Tractor at a minimum spacing of 72 inches. Set the wheels on the

4510, 5010, or 5020 Tractor at their maximum possible width. Both wheels should be set equidistant from the center line of the tractor as indicated by dimension "A." A wide rear wheel tread contributes to uniformity in depth of operation.

FRONT END WEIGHTS AND REAR WHEEL WEIGHTS

Additional front end weight on the tractor is required when operating any 100I Series Chisel Plow. The amount depends upon the ground conditions, the width of the chisel plow and the tool equipment used.

Add rear wheel weights as necessary for efficient operation.



N 7679

John Deere 5010 Tractor

CENTER LINK

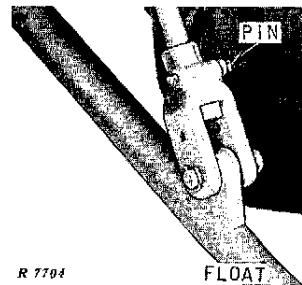
Set the center link at a length of 26-1/4 inches on the 4000, 4010, or 4020 Tractor, or 31-1/4 inches on the 4520, 5010 or 5020 Tractor. Then lengthen or shorten the link as required to level the chisel plow from front to rear.

LIFT LINKS

Adjust the length of the lift links to 29-3/4 inches on the 4000, 4010, or 4020 Tractor, 34-7/8 inches on the 4520 Tractor, or 39-3/4 inches on the 5010 or 5020 Tractor. Then use the adjusting lever or crank to lengthen or shorten the link as necessary to level the chisel plow from side to side.

It may be necessary to shorten or lengthen the lift links to level the chisel plow or to give additional working depth or transport clearance of the chisel plow.

LIFT LINK COLLARS (CHISEL PLOW WITH STABILIZER WHEELS)



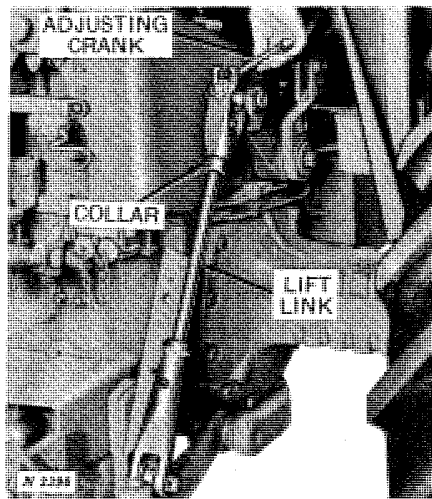
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When the chisel plow is equipped with stabilizer wheels, the lift link collars or pins should be in the float position as follows:

On the 4000, 4020, 4520, 5010, or 5020 Tractor, set the pins on the lift links in the upper hole (float position) to allow movement of the lift links.

6 Operation

On the 4010 Tractor, lower the collars on both lift links 1 inch to the second hole to permit up-and-down movement (floating) of the lift links. (See tractor operator's manual.)



Collar on 4010 Tractor in No Float Position

LIFT LINK COLLARS (CHISEL PLOW WITHOUT STABILIZER WHEELS)

When the chisel plow is used without stabilizer wheels, set the lift links in the "no float" position.

SELECTOR LEVER (CHISEL PLOW WITH STABILIZER WHEELS)

For heavy draft loads place the selector lever in the "Load and Depth" (LD) position. Adjust the stabilizer wheels for only light contact with the ground, so the wheels do not interfere with the operation of the "Load and Depth" control.

IMPORTANT: Do not use the stabilizer wheels to gauge the depth of operation for heavy draft loads.

The stabilizer wheels are provided to keep the chisel plow steady when variations in ground conditions are encountered.

For light draft loads, or when operating with sweeps, locate the selector lever in the "Depth" (D) position. The depth of operation is determined by the stabilizer wheels.

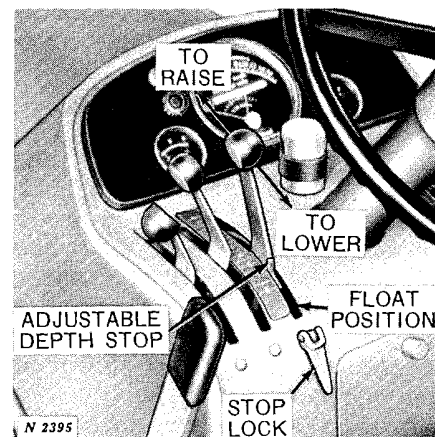
To allow the chisel plow to float, pull the rockshaft control lever all the way back to the quadrant, to the "floating action" position. This releases all hydraulic pressure from the rockshaft, enabling it to vary its up and down position automatically so the chisel plow can follow ground contours.

SELECTOR LEVER (CHISEL PLOW WITHOUT STABILIZER WHEELS)

Without stabilizer wheels the load-and-depth control actuates the rockshaft system automatically, regulating chisel plow working depth over uneven ground and compensating for the effect of ridges and depressions.

Place the selector lever in the "Load and Depth" (LD) position.

ROCKSHAFT CONTROL LEVER



The rockshaft control lever provides manual control of the chisel plow through the hydraulic system.

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