

1001 Series Integral Chisel Plow



JOHN DEERE

OPERATORS MANUAL

1001 Series
Integral Chisel Plow

OMN159068 H5 English

OMN159068 H5

LITHO IN 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 100I Series Chisel Plow.



N 3211

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 question 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.

Occasionally, your chisel plow may need new parts to replace worn parts. If you will furnish your dealer the description and the information which should be recorded at the bottom of this page when the chisel plow is delivered, he can give you prompt and efficient parts service.

JOHN DEERE 100I SERIES CHISEL PLOW

No. of Chisel Plow

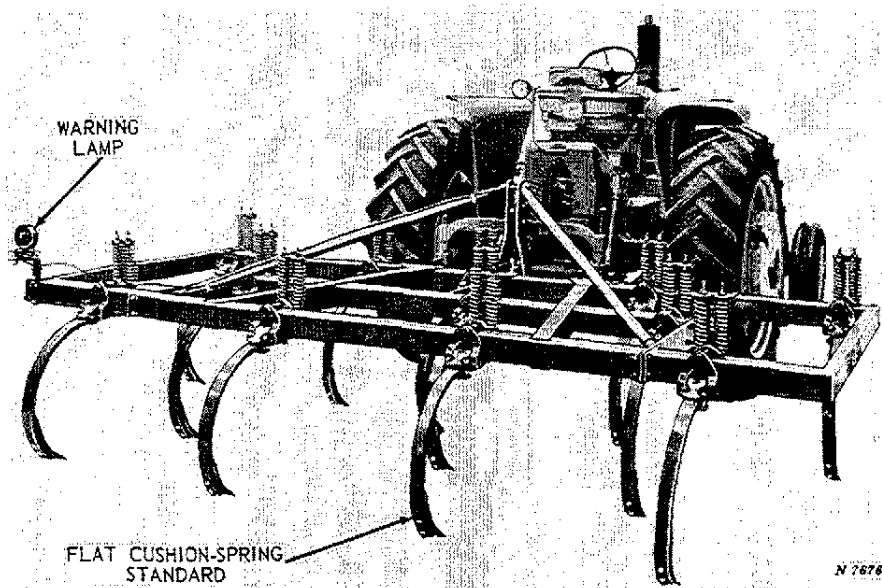
No. of Tool Equipment

Date Purchased 19. . . .

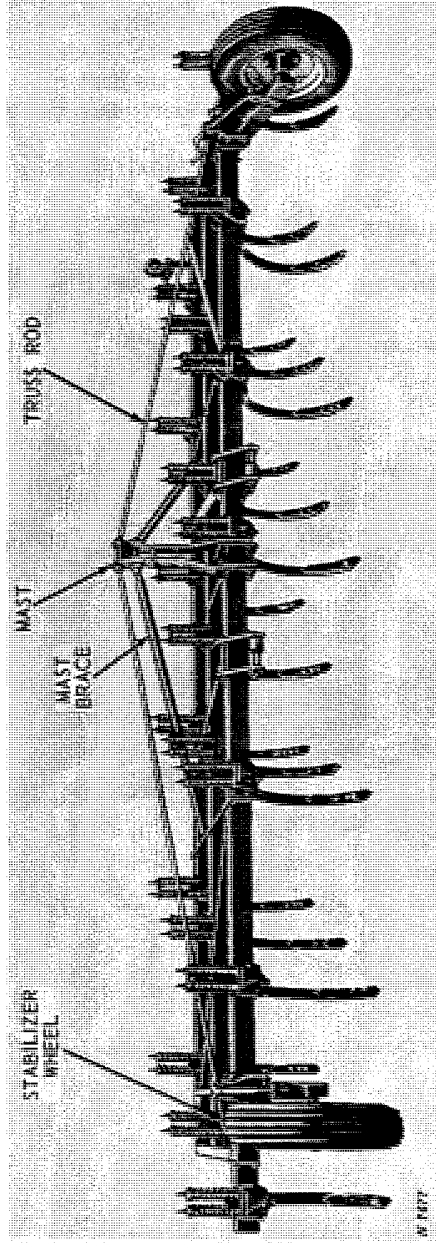
(To be filled in by purchaser)

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John Deere 1121 Chisel Plow with TE68 Tool Equipment on 4010 Tractor



John Deere 1201 Chisel Plow with TE114 Tool Equipment

SPECIFICATIONS

MODELS

110I - 10-Foot Integral Chisel Plow
 112I - 12-Foot Integral Chisel Plow
 114I - 14-Foot Integral Chisel Plow
 116I - 16-Foot Integral Chisel Plow
 118I - 18-Foot Integral Chisel Plow
 120I - 20-Foot Integral Chisel Plow

TRACTOR RECOMMENDATIONS

The size of tractor to use with the 100I Series Integral Chisel Plow depends on ground conditions, chisel plow size, and the number of standards on the chisel plow.

Under normal conditions, the John Deere 3020 and 4010 Tractors will handle the 110I or the 112I Chisel Plow. The 4020 Tractor will handle the 110I, 112I, or 114I Chisel Plow. The 5010 Tractor will handle all models under normal conditions.

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

Front end weights are recommended on all tractors when operating the chisel plow.

LIFT

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

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.

STABILIZER WHEELS

Regular on 18- and 20-foot sizes.
 Special on 12-, 14- and 16-foot sizes.

TOOL EQUIPMENT

Flat cushion-spring standards or 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.

TOOTH PATTERNS

Two different tooth patterns may be used for the flat cushion-spring standards and the flat spring standards.

The diagonal pattern can be used on the 10-, 12-, 14-, and 16-foot chisel plows. The split pattern can be used on all models of the 100I Chisel Plow.

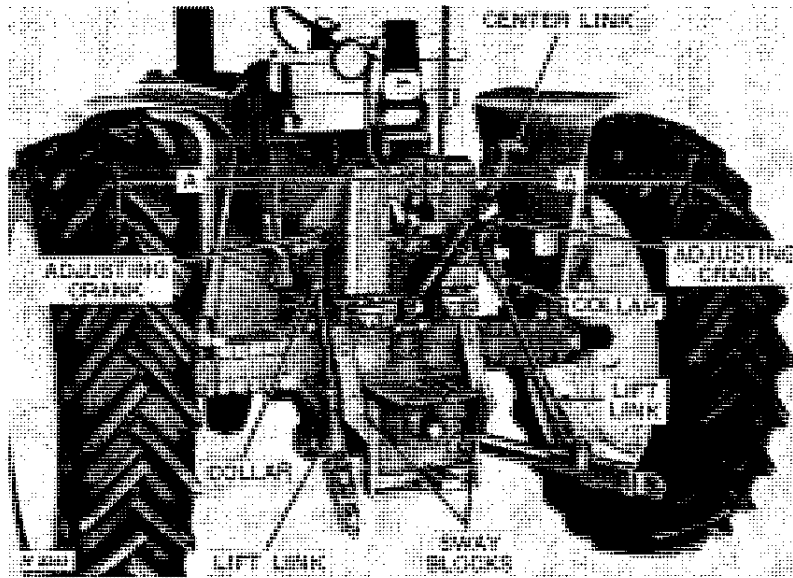
ROD WEEDER ATTACHMENT

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.

(Specifications and design subject to change without notice.)

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.

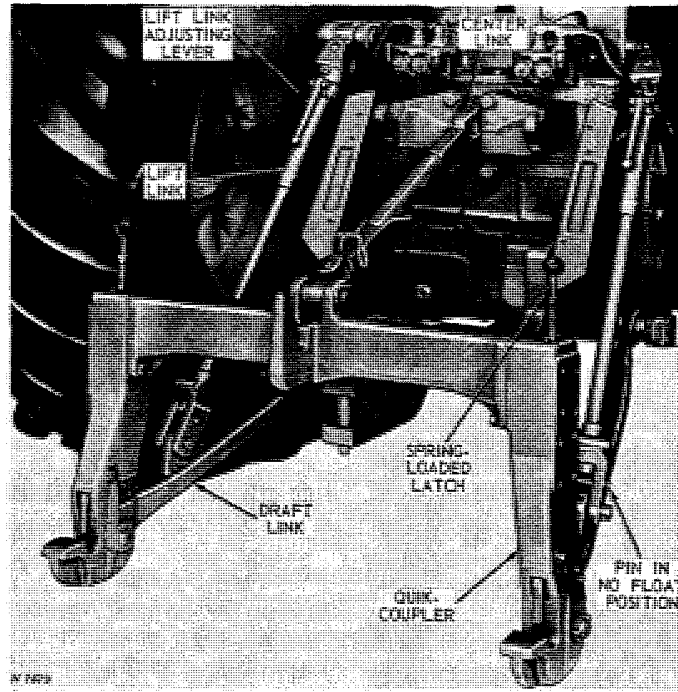
Set the wheels on the 3020, 4020, or 4010 Tractor at a minimum spacing of 72 inches. Set the wheels on the

5010 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 length of the chisel plow and the tool equipment used.

Add rear wheel weights as necessary for efficient operation.



John Deere 5010 Tractor

CENTER LINK

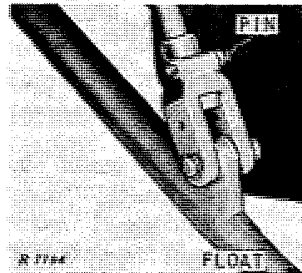
Set the center link at a length of 26-1/4 inches on the 3020, 4020, or 4010 Tractor, or 31-1/4 inches on the 5010 Tractor. Then lengthen or shorten the link as required to level the chisel plow from front to rear.

LIFT LINKS

Adjust the length of the lift links to 29-3/4 inches on the 3020, 4020, or 4010 Tractor, or 39-3/4 inches on the 5010 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



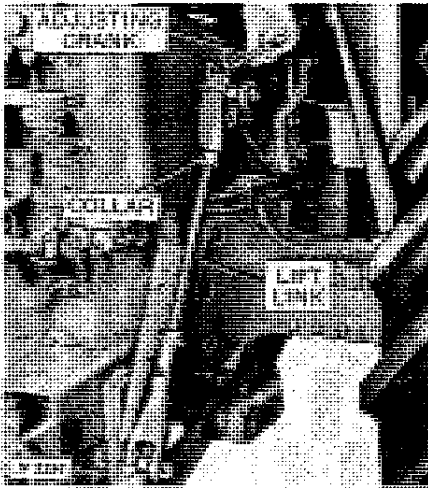
5010 Tractor in Float Position

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

On the 5010 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 3020, 4020, or 4010 Tractor, lower the collars on both lift links one 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

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.

CAUTION: 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.

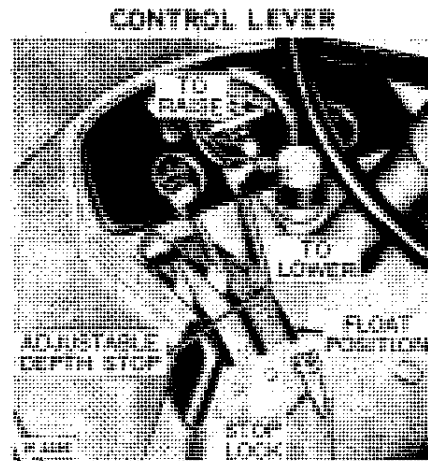
For light draft loads, or when operating with sweeps, locate the selector lever in the "Depth" (D) position. The depth of operation is determined by the stabilizer wheels.

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.



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

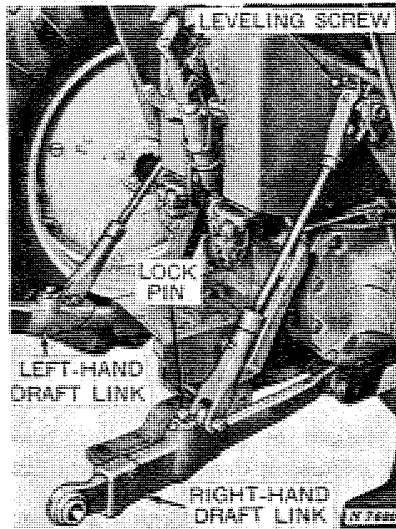
MAST AND HITCH PINS

The hitch pins can be assembled for use as follows:

- With category 2, 3-point hitch with Quik-Coupler
- With category 2, 3-point hitch without Quik-Coupler
- With category 3, Quik-Coupler 3-point hitch

See pages 17 and 18 for illustrations and assembly instructions.

ATTACHING CHISEL PLOW TO 3-POINT HITCH WITHOUT QUIK-COUPLER



The chisel plow should be standing on a level surface. Pull the Quik-Locking pin from each hitch pin on

the chisel plow and remove the hitch pins. Back the tractor until draft links are between the hitch adapter brackets on the chisel plow and approximately in line with hitch pin holes.

If necessary, the leveling screws can be used to line up the draft links with the hitch pin holes. By pulling up on the draft link lock pins, the telescoping shafts may be extended for easier connection of the draft links to the chisel plow.

Insert the hitch pins and secure with Quik-Locking pins.

Release the center link from the transport hook on the rear of the tractor and drop the center link hook over the hitch mast ball. Rotate the center link adjusting arm to lengthen or shorten the center link.

Lock the hook and mast ball firmly with the center link latch handle.

DETACHING CHISEL PLOW

To detach the chisel plow from the tractor, lower the chisel plow onto a level surface. Unlock the center link and remove from the mast ball. Pull the Quik-Locking pins from the hitch pins and remove the hitch pins.

Keeping your equipment in proper adjustment will help to keep it operating efficiently and economically.

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