

**INTEGRAL FOUR-BOTTOM  
TRACTOR PLOW NO. 814  
FOR MODEL "70"  
SERIES TRACTORS  
EQUIPPED WITH NO. 801  
TRACTION-TROL HITCH**



**JOHN DEERE**

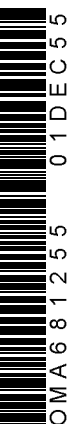
**OPERATORS MANUAL**

INTEGRAL FOUR-BOTTOM TRACTOR PLOW NO.  
814 FOR MODEL "70" SERIES TRACTORS  
EQUIPPED WITH NO. 801 TRACTION-TROL  
HITCH

OMA681255 (01DEC55) English

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ENGLISH



## YOUR NEW PLOW

Behind your new plow is an organization that has specialized in designing and building plows for over one hundred and fifteen years. This plow was built in the world's largest plow factory by experienced men, many who have worked in this large plant for from ten to forty-five years, thus assuring the utmost in good design, high-grade workmanship and thorough inspection, so essential to the production of good plows.

High quality materials, precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated, so that you may make the necessary adjustments for adapting your plow to work properly in practically all types of soil and field conditions. These adjustments such as proper hitching and adjusting for width and depth of cut, are fully covered in this manual, which has been prepared by plow experts. Study the manual carefully and make it your guide.

Occasionally your plow may need new parts to replace worn parts, or emergency service may be required that is not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer, which assure you of genuine JOHN DEERE Parts and prompt "know-how" service in the field or shop.

If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the plow is delivered, he can give you prompt and efficient service.

**John Deere No. 814  
Integral Tractor Plow**

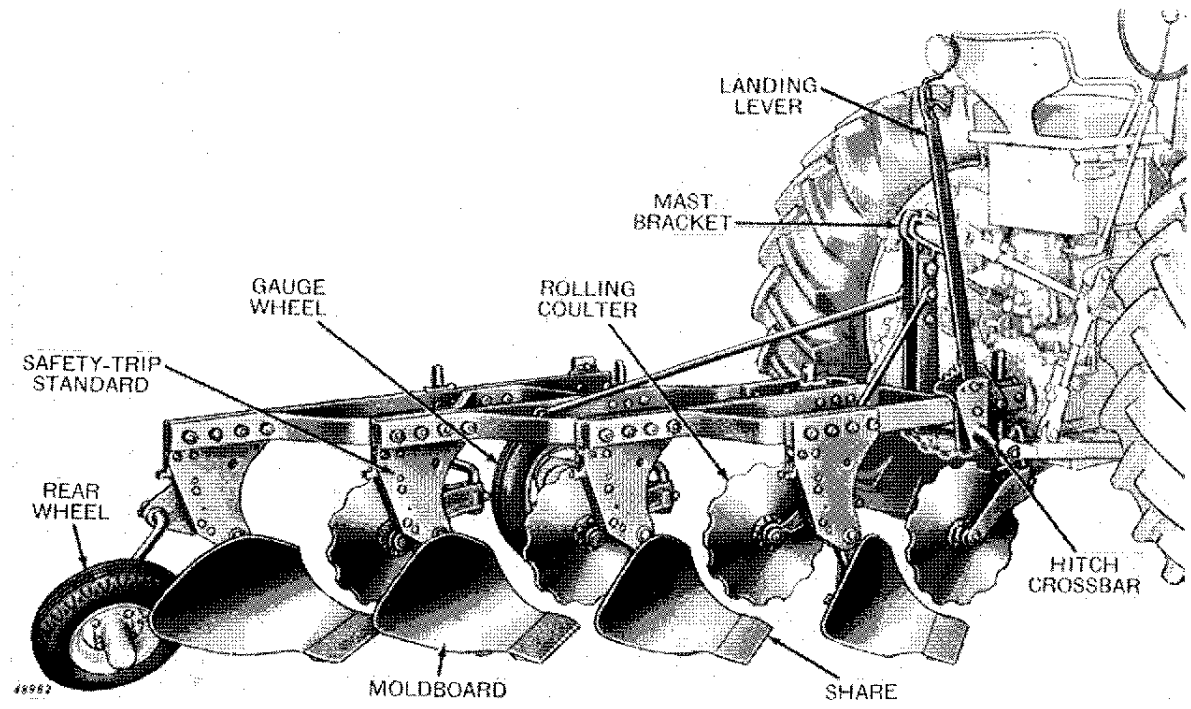
No. of Plow .....

Date Purchased ..... 19 .....

*(To be filled in by Purchaser)*

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**Figure 1—John Deere No. 814 Four-Bottom Integral Tractor Plow on Model "70" Tractor**

## SPECIFICATIONS AND DATA

|                               |   |
|-------------------------------|---|
| TYPE.....                     | No. 814 Plow is a four-bottom integral tractor plow for use with the John Deere Model "70" Series Tractors equipped with No. 801 Traction-Trol Hitch. |
| DEPTH RANGE.....              | 2 to 10 inches depending on type of bottoms.  |
| DEPTH ADJUSTMENT..            | Maintained by gauge wheel.  |
| LEVELING.....                 | Lateral (side-to-side) leveling controlled by leveling screws in hitch lift links.<br>Fore-and-aft leveling controlled by upper links on hitch.       |
| BOTTOMS.....                  | 14-inch. Various types available as ordered.  |
| LANDSIDES.....                | Only bottoms with No. 4 Landsides can be used.  |
| REAR WHEEL.....               | With tire and tube, regular.  |
| GAUGE WHEEL.....              | Steel, regular.<br>Rubber-tired, with or without tire and tube, special.  |
| HITCH.....                    | No. 801 Traction-Trol Hitch.  |
| LANDING LEVER.....            | Regular equipment.  |
| COULTERS.....                 | 15-inch plain, regular.<br>17-inch plain, special.<br>17-inch notched, special.   |
| JOINTERS.....                 | Combination, cast or steel, special.<br>Independent, cast or steel, special.  |
| COVER DISK<br>ATTACHMENT..... | Special equipment.  |

*NOTE: When the terms "right" or "left" are used, it means from a position behind the plow facing the front.*

*(It is a John Deere policy to improve our machines at every opportunity. Consequently, it may be necessary to change design without notice.)*

## OPERATING AND ADJUSTING INSTRUCTIONS

### GOOD PLOWING

Your new plow is fully adjustable and, when properly adjusted to operate in the type of 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; it leaves the soil in proper condition to be worked down into the best type seedbed.

### PREPARING THE PLOW

The polished surfaces of the plow bottoms are varnished, and those on the coulters are blue lacquered. This protective coating should be removed before the plow is put into operation.

To remove this coating, apply varnish remover or a strong lye water solution and let soak for a few minutes, then rub off. Repeat operation if necessary.



**CAUTION:** When using the lye solution, keep it away from the body and clothing as it is poisonous. Also, be sure to thoroughly remove the lye solution from the polished surfaces to prevent discoloration of steel.

If plow is not to be used immediately, protect the polished surfaces by applying a coat of cup grease or hard oil.

Be sure plow has been properly lubricated. See Lubrication Chart on page 16.

### PREPARING THE TRACTOR

Bolt the tractor drawbar in the center of the drawbar frame in the short high position, as shown in Figure 3.

In order to assure efficient operation it is recommended that proper weight be added to the rear wheels of the tractor.

For complete tractor operating instructions, tire inflation pressures, and rear wheel weights on the Model "70" Tractor, refer to the Tractor Operator's Manual.

#### REAR TRACTOR WHEEL SETTING.

For this 14-inch plow set rear tractor wheels 51 inches apart, centered, from inside to inside of tires, regardless of tire size.

## FRONT END WEIGHTING.

For safe transport stability, add front end weights to John Deere Tractors as follows:

| Tractor Model | Type of Front Wheel | R.H. Front Frame Weight       | L.H. Front Frame Weight | Front Frame Weight | Auxiliary Front Weight | Total Weight to be Added |
|---------------|---------------------|-------------------------------|-------------------------|--------------------|------------------------|--------------------------|
| "70"          | Single              | X                             | X                       | X                  | X                      | 450 lbs.                 |
| "70"          | Double              | X                             | X                       | X                  |                        | 325 lbs.                 |
| "70"          | Adjustable          | X                             | X                       |                    |                        | 200 lbs.                 |
| "70" Diesel   | Single              | X                             | X                       | X                  |                        | 325 lbs.                 |
| "70" Diesel   | Double              | X                             | X                       |                    |                        | 200 lbs.                 |
| "70" Diesel   | Adjustable          | No Additional Weight Required |                         |                    |                        | .....                    |
| "70" Standard | Fixed               | No Additional Weight Required |                         |                    |                        | .....                    |
| "70" Standard | Adjustable          | No Additional Weight Required |                         |                    |                        | .....                    |

If your tractor has any of the following front end equipment, deduct weight indicated in the following chart from the front end weighting requirements.

| Front End Equipment | Deduct from Weight Requirements |
|---------------------|---------------------------------|
| Roll-O-Matic        | 50 Pounds                       |
| Power Steering      | 100 Pounds                      |

## ADJUSTING THE No. 801 TRACTION-TROL HITCH

The following instructions for adjusting the No. 801 Traction-Trol Hitch apply when hitch is used with the No. 814 Plow only. For complete instructions on attaching and adjusting the No. 801 Hitch, refer to the Hitch Operator's Manual.

### SWAY CHAINS.

When using the No. 814 Plow on the No. 801 Hitch, the right-hand sway chain must be attached, as shown in Figure 2.

Remove the right-hand chain from the clevis on the tractor drawbar and the lug on the right-hand draft link. Attach the end with the clevis that was removed from the right-hand lug to the forward lug on the left-hand draft link. Leave other end of chain free until ready to attach plow. Then attach chain to the clevis on the plow hitch crossbar as shown in Figure 2.

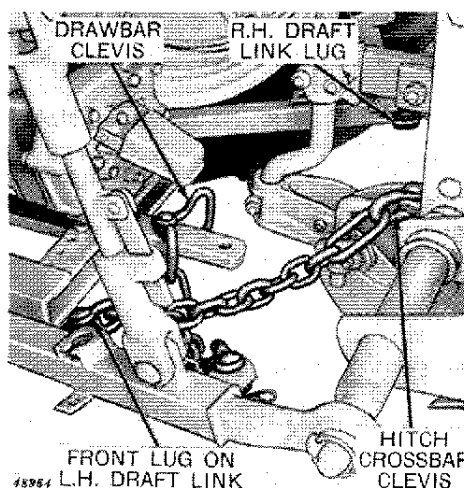


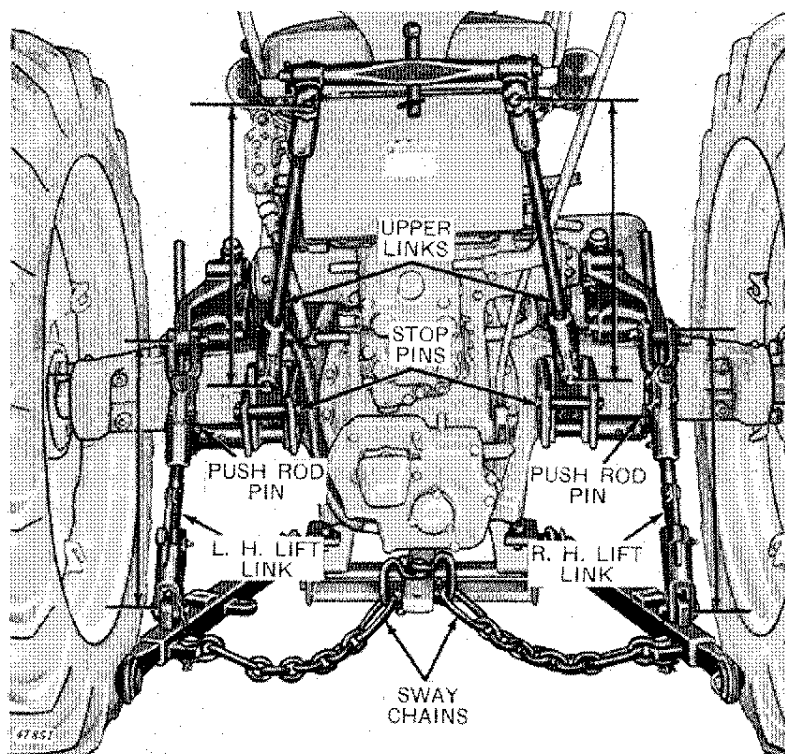
Figure 2—Sway Chains

### BELL CRANKS AND PUSH RODS.

Be sure bell crank stop pins are in operating position (rear holes in bell crank brackets).

Push rod pins should be in middle hole in push rod cranks for average plowing conditions.

### UPPER LINKS AND LIFT LINKS.



*Figure 3—No. 801 Hitch—Checking Points*

It is important that the length of the upper links and the lift links be adjusted properly. Measure from center to center of pins as indicated in Figure 3. The length of the upper links should measure 29 inches, the left-hand lift link, 20-1/2 inches, and the right-hand lift link, 19-1/4 inches.

*NOTE: A slight increase or decrease of the recommended length may be necessary in other than normal conditions and in very deep or very shallow plowing.*

When operating the No. 814 Plow with the No. 801 Hitch, the upper end of the lift links must be attached to the inner holes in the rockshaft lift cranks.



## ATTACHING PLOW TO HITCH

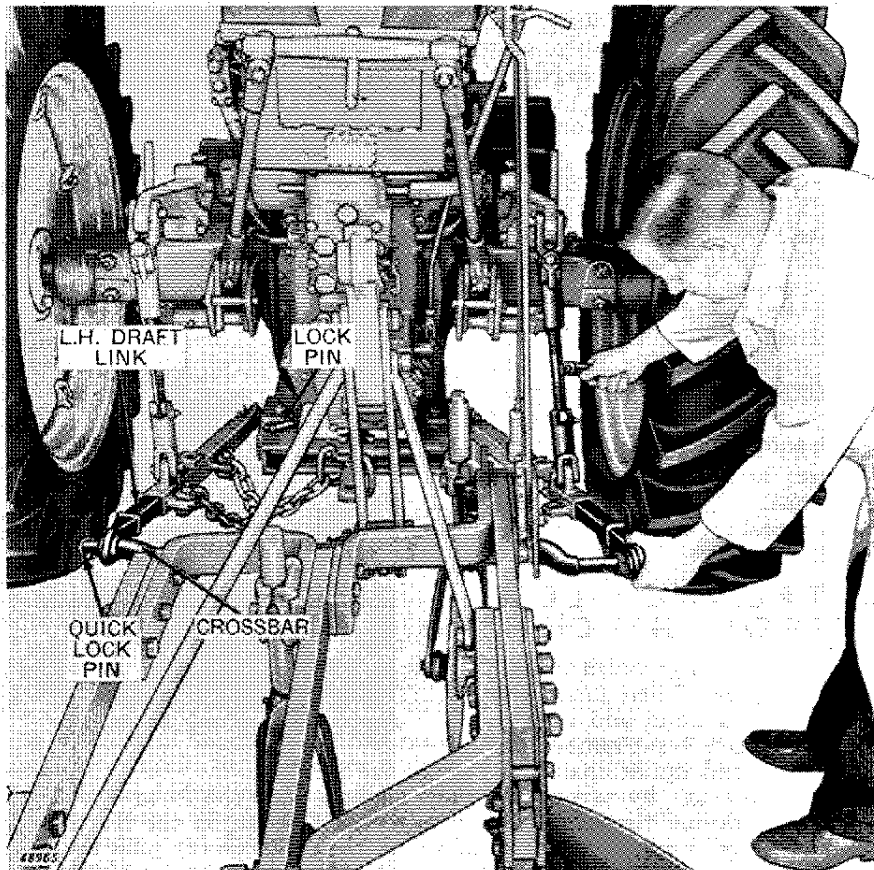


Figure 4—Connecting Draft Links

Back the tractor until draft links are approximately in line with the attaching points of the plow hitch crossbar. Position left draft link for height by moving the tractor Powr-Trol lever. Remove the lock pin to free the telescoping sections of the draft link. Then adjust the telescoping draft link for proper length and slip the ball socket over the hitch crossbar. Lock with quick-lock pin.

Connect right-hand draft link in the same manner except that the leveling screw may be used for raising or lowering the draft link to proper height. *NOTE: Be sure to reset the R.H. Lift Link to the recommended length shown on page 6.*

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