

820 AND 820A SERIES INTEGRAL ONE AND TWO FURROW TWO-WAY TRACTOR PLOWS



JOHN DEERE

OPERATORS MANUAL

820 AND 820A SERIES INTEGRAL ONE
AND TWO FURROW TWO-WAY TRACTOR
PLOWS

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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. 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 Nos. 820 or 820A Series Integral
Two-Way Tractor Plows**

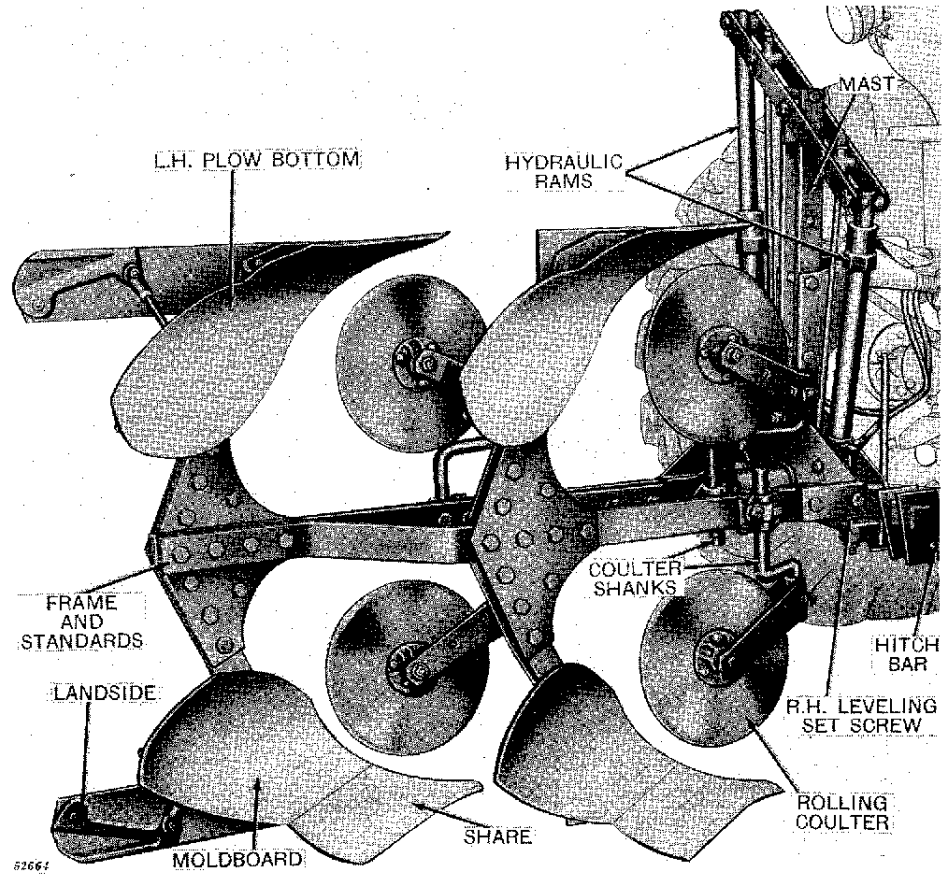
No. of Plow.....

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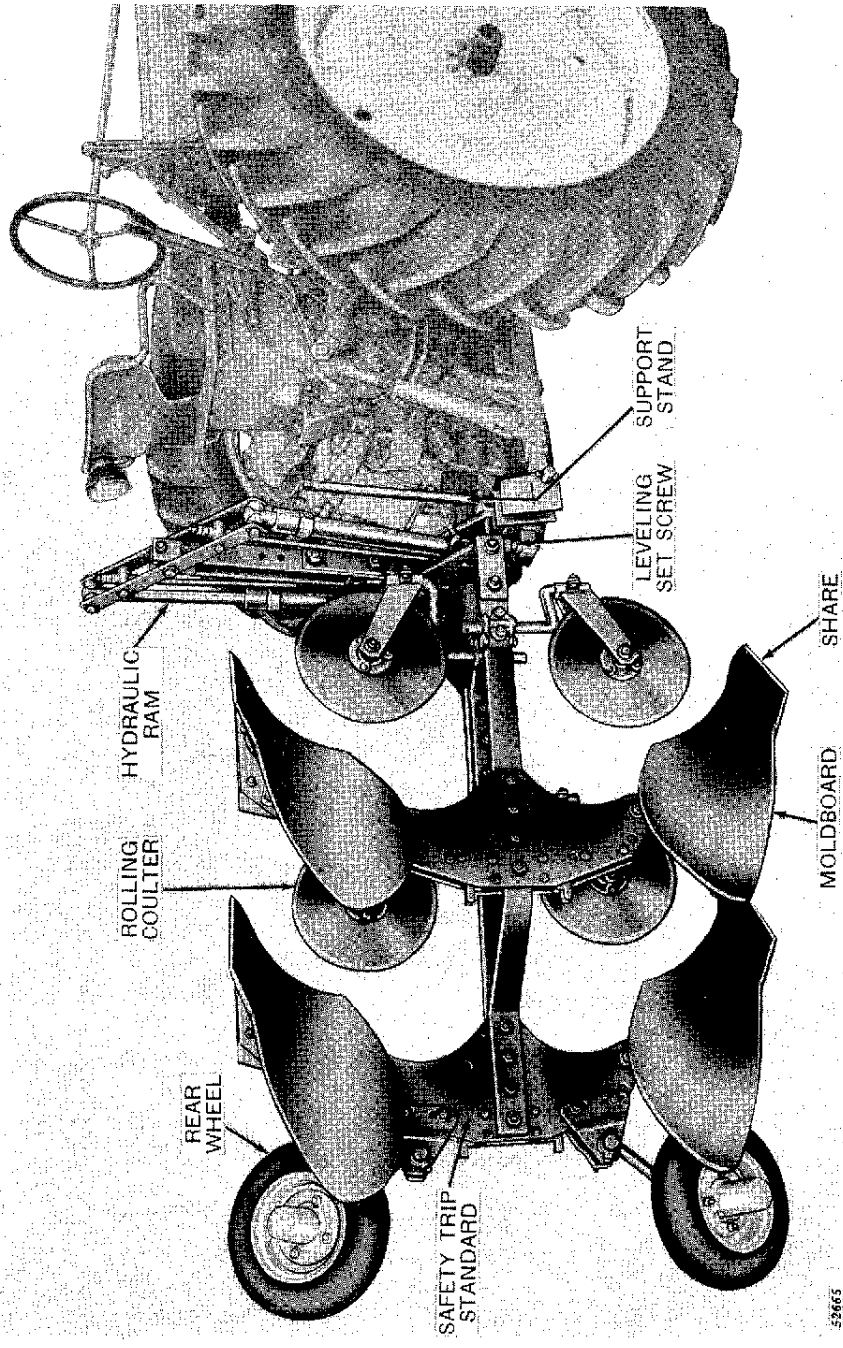
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No. 820 Integral Two-Furrow Two-Way Plow Mounted on John Deere "620" Tractor



52865

No. 820A Integral Two-Furrow Two-Way Plow Mounted on John Deere "520" Tractor

SPECIFICATIONS

TYPES..... No. 820 One-Furrow, Deep-Tillage Two-Way 16- and 18-Inch Integral Tractor Plow for use with John Deere "620" and "720" Series Tractors.

No. 820A One-Furrow Plow is the same as the No. 820 One-Furrow Plow except that it is equipped with safety-trip standards and rear wheels and can be used with John Deere "520," "620," and "720" Series Tractors.

No. 820 Two-Furrow Two-Way 14- and 16-Inch Integral Tractor Plow for use with John Deere "520," "620," and "720" Series Tractors.

No. 820A Two-Furrow Two-Way Plow is the same as the No. 820 Two-Furrow Plow except that it is equipped with safety-trip standards and rear wheels.

NOTE: The above plows, with the exception of the No. 820 One-Furrow, may be adapted for use with a John Deere "50," "60," or "70" Series Tractor equipped with a No. 800 Series Hitch. The No. 820 One-Furrow Plow may be adapted for use with a John Deere "60" or "70" Series Tractors equipped with a No. 800 Series Hitch.

BOTTOMS..... Nos. 820 and 820A One-Furrow Plows—16- or 18-inch as ordered.

No. 820 Two-Furrow Plow—14- or 16-Inch as ordered.

No. 820A Two-Furrow Plow—14-inch (16-inch can be furnished only if equipped with narrow cut shares).

DEPTH RANGE. No. 820 One-Furrow Plow—8 to approximately 18 inches, depending on type and size of bottoms.

No. 820 Two-Furrow and No. 820A One- and Two-Furrow Plows—4 to approximately 12 inches, depending on type and size of bottoms.

SPECIFICATIONS—Continued

LEVELING.....	Individual adjustment for lateral leveling of each set of bottoms.
LIFT.....	Hydraulically controlled by control lever on tractor.
ROTATION OF BOTTOMS.....	Controlled by hydraulic system of tractor which actuates two single-acting hydraulic rams on plow.
COULTERS.....	15-inch plain, special.
LANDSIDES.....	No. 820 One-Furrow—No. 5 Long Landside No. 820 Two-Furrow—No. 4 Short Landside on Front Bottoms. No. 5 Long Landside on Rear Bottoms. No. 820A One- and Two-Furrow—No. 4 Short Land- side.
REAR WHEEL...	Regular on No. 820A One- and Two-Furrow Plows. Special on No. 820 Two-Furrow Plow.
GAUGE WHEELS.	Cast, 16-inch, special. Rubber-tired, special.

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

(Specifications and design subject to change without notice.)

OPERATING AND ADJUSTING

IMPORTANCE OF PROPER ADJUSTMENT

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 coulter 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, let soak for a few minutes, and then rub it off. Repeat operation if necessary.



CAUTION: When using the lye solution keep it away from the body and

clothing as it may cause burns. Also, be sure to remove the lye solution thoroughly from the polished surfaces to prevent discoloration of steel.

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

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

PREPARING AND ADJUSTING JOHN DEERE "520," "620," AND "720" SERIES TRACTORS

For complete tractor operating instructions, tire inflation pressures, and rear wheel weights, refer to your Tractor Operator's Manual.

Set the tractor drawbar in the short high position and bolt drawbar to the extreme left-hand side of the support.

Remove the power shaft master shield—the flipper guard will cover the power shaft.

Remove sway locks from draft link supports.

In order to assure efficient operation, it is recommended that proper weight be added to the rear wheels of the tractor. See your Tractor Operator's Manual.

REAR WHEEL SETTINGS.

Adjust rear wheels of the tractor equidistant from the center line of the tractor. The distance between the center line of the tractor and the inside of the tire is determined by the size of the plow. Set the rear wheels according to the following chart:

<u>Plow Size</u>	<u>Distance From Center Line of Tractor to Inside of Tires</u>
One-Furrow 16-Inch...	28-1/2"
One-Furrow 18-Inch...	30-1/2"
Two-Furrow 14-Inch..	27-1/2"
Two-Furrow 16-Inch..	29-1/2"

When plowing at depths greater than 8 inches, add 1 inch to the above dimensions.

FRONT WHEEL TREAD.

On wide-front-axle tractors set front wheels to conform to rear wheel setting.

FRONT END WEIGHTING.

When using a No. 820 or 820A Two-Furrow Plow on a John Deere "520" Tractor, add front end weights as follows:

"520" Tractors	Total Weight Required
Single Front Wheel	235
Dual Front Wheels with Roll-O-Matic	190
Dual Front Wheels without Roll-O-Matic	240

Front end weights are not required on the John Deere "620" and "720" Tractors when used with these plows.

The No. 820 Series One-Furrow Plow is not recommended for use with the John Deere "520" Series Tractors.

THREE-POINT IMPLEMENT ATTACHMENT SYSTEM WITH LOAD-AND-DEPTH CONTROL.

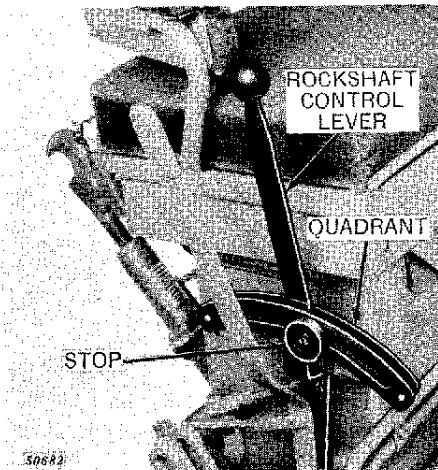
The three-point implement attachment system provides a fast, easy means of attaching the plow to the tractor. Once the plow is attached, precision Load-and-Depth Control is accomplished by the hydraulic system. See your Tractor Manual for complete explanation of Load-and-Depth Control.

Rockshaft Control Lever.

Moving the rockshaft control lever to the rear raises the plow, while moving the lever to the front lowers the plow.

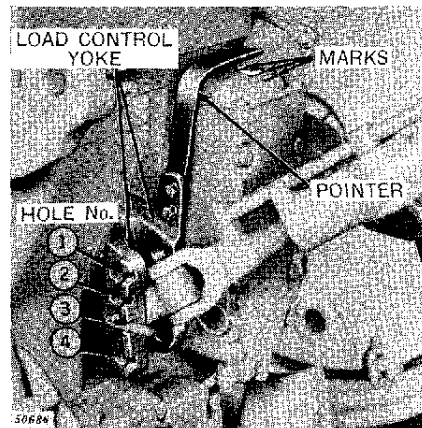
The depth control stop on the quadrant can be set (after a few minutes operation to determine the desired position) so that the plow always returns to the same working depth when it is lowered.

After the stop has been set, it occasionally may be necessary to vary the set depth. If you want to raise the plow slightly, move the control lever slightly to the rear. If you want to lower the plow beyond the set depth, move control lever to inner side of quadrant and push it past the depth control stop.



Rockshaft Control Lever Quadrant and Stop

LOAD CONTROL YOKE.



Load Control Yoke and Pointer

The load control yoke has four attaching holes for the upper link. These holes determine the sensitivity of the Load-and-Depth Control system. The bottom hole is the most sensitive and the top hole the least sensitive.

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