

INTEGRAL TRACTOR PLOW NO. 422A FOR "420" AND "40" SERIES JOHN DEERE TRACTORS



OPERATORS MANUAL

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AND "40" SERIES JOHN DEERE TRACTORS

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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 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 assures 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 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 assures you of genuine John Deere Parts and prompt "know-how" service in the field or shop.

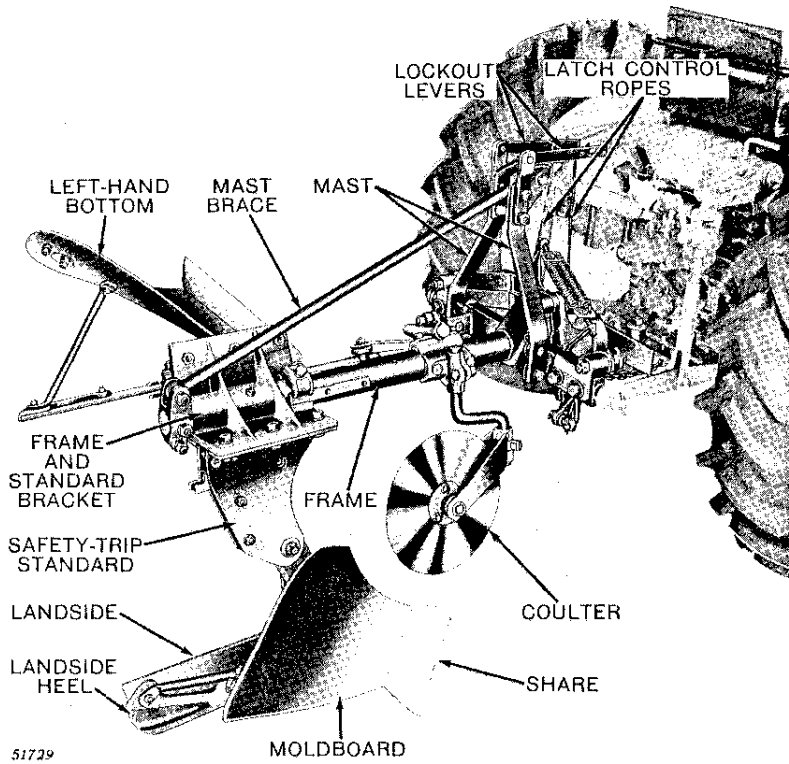
If you will furnish your dealer with the information which should be recorded at the bottom of this page, when the plow is delivered, he can give you prompt and efficient service.

<p>John Deere No. 422A Two-Way Tractor Plow Date Purchased..... 19.....</p>

(To be filled in by Purchaser)

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John Deere No. 422A Plow—Right-Hand Bottom in Plowing Position

SPECIFICATIONS

TYPE No. 422A Plow is a One-Furrow Two-Way 14-, 16-, and 18-inch Integral Tractor Plow for use with the John Deere "420" and "40" Tricycle, Special, and Two-Row Utility Tractors, and a 14- and 16-inch Integral Tractor Plow for use with John Deere "420" and "40" Standard and Utility Tractors.

NOTE: This plow also can be used on other tractors with standard 3-point hitch.

DEPTH RANGE 2 to 12 inches depending on type and size of bottoms.

LEVELING Fore-and-aft leveling controlled by upper link on tractor.
Lateral leveling controlled by link adjusting pivots on the crossbar.

LIFTING Regulated by Touch-o-matic hydraulic system on tractor.

BOTTOMS Various types available as ordered.

LANDSIDE No. 6 long landside.

HITCH Three-point.

COULTERS 15-inch plain, regular
17-inch plain, special
17-inch notched, special

JOINTERS Independent, cast, special.

NOTE: When the 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 INSTRUCTIONS

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 coulters and jointers 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 may cause burns. 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 or gun grease.

Be sure plow has been properly lubricated. See Lubrication Chart on page 17.

PREPARING AND ADJUSTING JOHN DEERE "420" OR "40" TRACTORS

For John Deere "420" or "40" Series Tractor operating instructions refer to your Tractor Operator's Manual.

FRONT WHEEL TREAD.

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

REAR WHEEL SETTING.

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. For a 14-inch plow, set wheels 21 inches from center of tractor to inside of tire; for a 16-inch plow, 23 inches; and for an 18-inch plow, 25 inches.

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

NOTE: John Deere "420" Two-Row Utility Tractor equipped with 10-34 tires will permit the use of 14-inch bottoms. Fourteen-inch bottoms cannot be used with tractors equipped with 12-28 tires because sufficiently narrow tread cannot be obtained.

TIRE INFLATION AND REAR WHEEL WEIGHTS.

It is important that proper weight be added to the tractor for various plowing conditions. See your Tractor Operator's Manual for information regarding rear wheel weights and front and rear wheel tire pressures.

FRONT END WEIGHTING.

For those plow and tractor combinations which require additional front end weighting for stability purposes, add front end weights to tractors as follows:

John Deere "420" and "40" Tricycle Tractors.

For favorable operating conditions, front end weights beyond liquid filled tires may not be necessary.

For less favorable conditions, two side weights (approximately 170 pounds) are recommended in addition to liquid filled front tires.

For extreme operating conditions, two side weights plus one front weight (approximately 310 pounds) may be necessary in addition to liquid filled front tires.

John Deere "420" and "40" Standard, Special, Utility and Two-Row Utility Tractors.

For favorable conditions, front end weights beyond liquid filled tires may not be necessary.

For less favorable conditions, one front end weight (approximately 150 pounds) is recommended in addition to liquid filled tires.

For extreme conditions, two front end weights (approximately 300 pounds) may be necessary in addition to liquid filled tires.

ROCKSHAFT LIFT ARMS.

On John Deere "420" or "40" Tricycle, Special and Two-Row Utility Tractors pin the rockshaft lift arms together with lift arm lock pin, so the Touch-o-matic cylinders will work in parallel to obtain maximum lifting capacity.

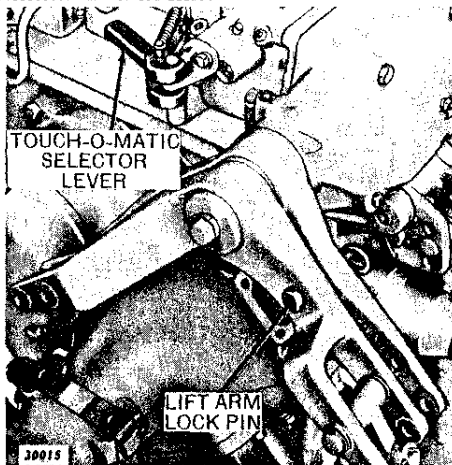
TOUCH-O-MATIC SELECTOR LEVER.

On John Deere "420" or "40" Tricycle, Special and Two-Row Utility Tractors the Touch-o-matic Selector Lever must be in forward position when lift arms are pinned together.

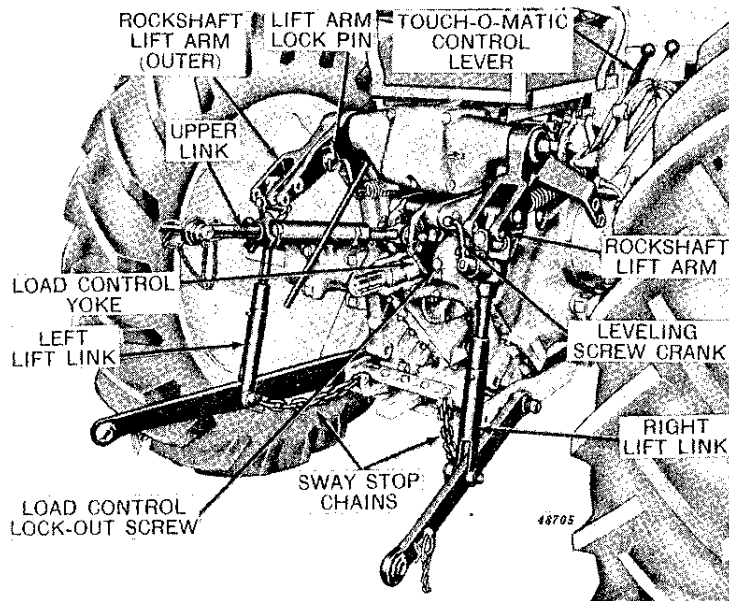
TOUCH-O-MATIC CONTROL LEVER.

On John Deere "420" or "40" Tricycle, Special and Two-Row Utility Tractors move the inside or left-hand Touch-o-matic control lever to the extreme rear of the quadrant. Lock in this position with quadrant stop.

CAUTION: Do not under any circumstances place right-hand Touch-o-matic lever to rear and attempt to operate the system with the left-hand lever while cylinders are parallel and Load-and-Depth Control is set to operate. This may cause damage to the unit.



Rockshaft Lift Arms



John Deere "420" Tricycle Tractor Detail

LOAD CONTROL YOKE.

Turn the load control lockout screw in firmly against the transmission rear cover to permit the Load-and-Depth Control to function.

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