777 and 777H Four-, Five- and Six-Bottom Drawn Moldboard Plows

JOHN DEERE

OPERATORS MANUAL

777 and 777H Four-, Five- and
Six-Bottom Drawn Moldboard Plows

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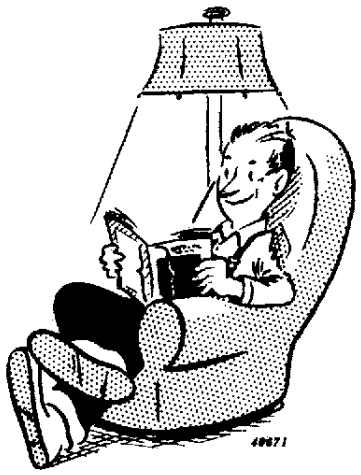
YOUR NEW PLOW

Behind your new plow is an organization that has specialized in designing and building plows for over one hundred and twenty 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 this manual carefully. Keep it handy, in a safe place, for future reference.



Occasionally your plow may need new parts, or require service 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 777 AND 777H FOUR-, FIVE-, AND SIX-BOTTOM MOLDBOARD PLOWS

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

(To be filled in by Purchaser)

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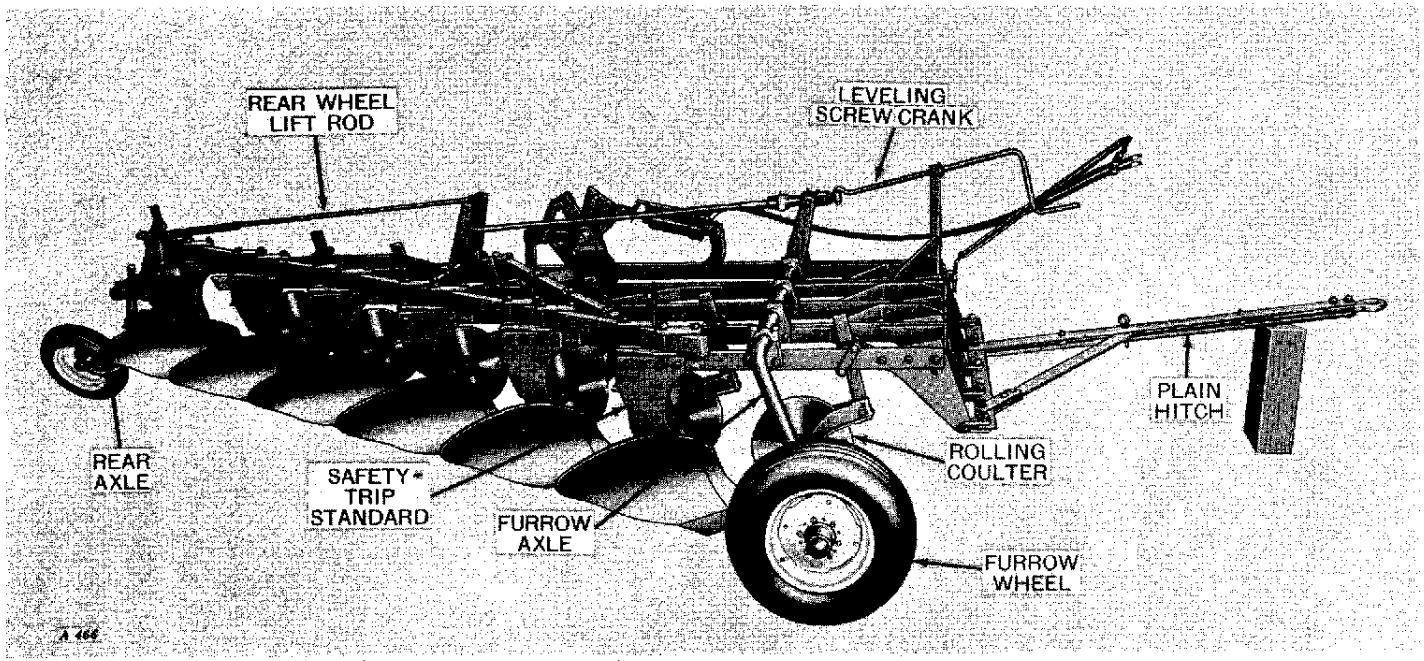
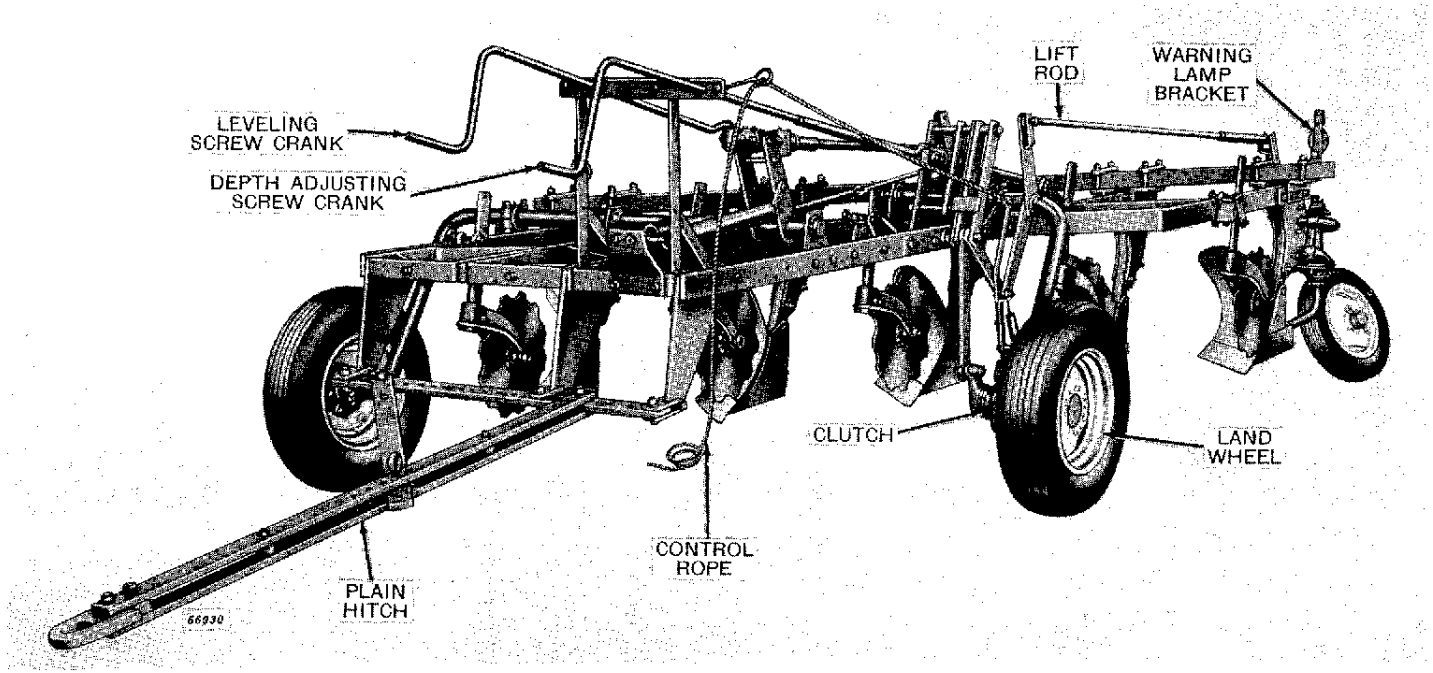


John Deere 777H Six-Bottom Moldboard Plow



John Deere 777 Five-Bottom Moldboard Plow

SPECIFICATIONS

TYPES..... **777 Clutch-Lift** Four- and Five-Bottom 14-inch Plows and Four-, Five-, and Six-Bottom 16-Inch Plows.

777H Hydraulic-Lift Four-, Five-, and Six-Bottom 14- and 16-Inch Plows.

NOTE: A track-type tractor or John Deere "830" or "820" Series Tractor is recommended for use with the six-bottom plow.

DEPTH RANGE..... 6 to 14 inches, depending on type of bottoms.

BOTTOMS..... Various types available as ordered.

WHEELS

FURROW:

777 and 777H..... Equipped with anti-friction bearings. Regular less tire and tube. Special with 7.60 x 15-inch tire and tube. Steel wheel, special.

LAND:

777..... Regular less tire and tube. Special with 7.60 x 15-inch tire and tube. Steel wheel, special.

777H..... Equipped with anti-friction bearings. Regular less tire and tube. Special with 7.60 x 15-inch tire and tube. Steel wheel, special.

REAR..... Wheels for use on axles equipped with either anti-friction or chilled bearings available.

777 and 777H..... **For axles with anti-friction bearings:**
With 4.00 x 12 tire and tube, regular
Less tire and tube, special. Cast, special.

For axles with chilled bearings:
With 4.00 x 12 tire and tube, special
Less tire and tube, special. Steel, special.

HITCH..... Plain hitch for track-type tractors, regular. Plain hitch for wheel-type tractors, special. Clevises for wheel-type tractors with straight or forked drawbar, special.

LIFT..... Enclosed-type clutch for 777 Plow. Remote hydraulic cylinder for 777H Plow.

LEVELING.....	Easy to adjust screw cranks.
LANDING LEVERS..	Tractor-type available as special equipment.
COULTERS.....	17-inch plain, flat shank, regular. 15- or 18-inch plain, flat shank, special. 15-, 17-, or 18-inch plain, round shank, special. 17-inch notched, flat shank, special. 17-inch notched, round shank, special
JOINTERS.....	Independent cast or steel available as special equipment. Combination cast or steel available as special equipment to be used with round shank coulters.
ROOT CUTTERS.....	Available as special equipment.
WEED HOOKS.....	Available as special equipment.
MOLDBOARD PAD..	Available as special equipment.
GAUGE WHEEL.....	Available as special equipment for the 777 and 777H Plows. Available either less tire and tube or with 5.90 x 15-inch tire and tube.

(Specifications and design subject to change without notice.)

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

OPERATION

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.

Improper adjustment results in rapid wear and possible breakage of parts, and inefficient operation.

PREPARING THE PLOW

PLOW BOTTOMS

The polished surfaces of the plow bottoms have been painted with protective black paint.

In most cases it is not necessary to remove the black paint because it will wear off quickly upon contact with the soil. In those soils where the black paint will not wear off, remove with gasoline, kerosene, or diesel fuel.

Be careful when using any of these fuels so they do not ignite. Plow should be in a well-ventilated area and away from any sparks or flames.

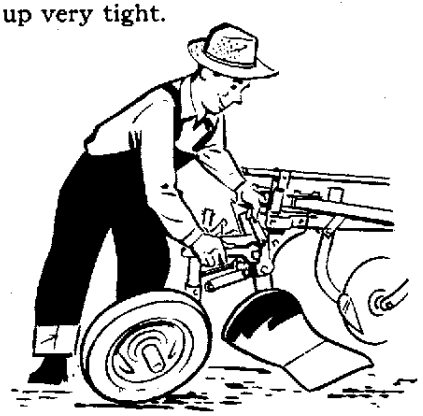
If the plow is not to be used immediately, protect the polished surfaces by applying a coat of cup or gun grease. If plow is to be put in storage for a considerable length of time, see page 32.

Check plow tires to be sure they are inflated properly as shown below:

Wheel	Recommended New Implement or New or Used Auto Tires	Inflation Pressure
Furrow	7.60 x 15—4-Ply	24 Lbs.
Land	7.60 x 15—4-Ply	24 Lbs.
Rear	4.00 x 12—4-Ply	36 Lbs.
Gauge	5.90 x 15—4-Ply	28 Lbs.

BOLTS AND SET SCREWS

Before starting to work with a new plow or one which has been stored, check to see that all bolts and set screws are tight and all cotter pins spread to keep them from falling out. Check the bolts that hold the plow bottoms to see that they are drawn up very tight.



A good practice is to check for loose bolts, screws, or parts when lubricating the plow. Loose bolts are easily lost or cause excessive wear on parts, resulting in possible serious damage to the plow.

LUBRICATION

Be sure plow has been properly lubricated. See Lubrication Charts on pages 34 and 35.

PREPARING AND ADJUSTING TRACTOR

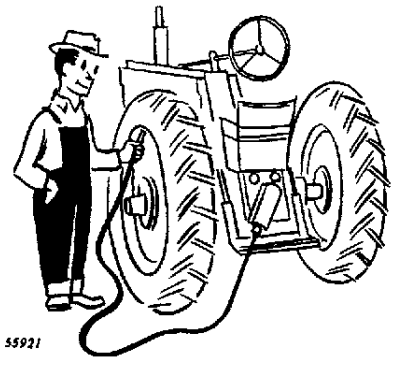
For complete tractor operating instructions, refer to your tractor Operator's Manual.

TIRE INFLATION

Inflate the tractor tires as recommended in the tractor Operator's Manual. For plowing, add 4 pounds more air in right rear tire than in left rear tire.

Proper air pressure is the most important factor in satisfactory performance and maintenance of tractor and implement tires. Underinflation will damage the cord body of the tire and cause a series of radial breaks in the sidewall fabric. This may occur on the inner sidewall of the furrow wheel tire. If the tire buckles or wrinkles, the air pressure should be increased to where the sidewalls remain smooth while operating.

If additional traction is required, add weight to the wheels. Lowering the air pressure will make little difference in the traction and may ruin the tires.



Check air pressures every two or three weeks. Use a special low pressure gauge having 1-pound graduations.

REAR WHEEL WEIGHTING

In average conditions, rear wheel weights are not necessary. In those conditions where it becomes necessary to add weight to the rear wheels, see your tractor Operator's Manual for weighting instructions.

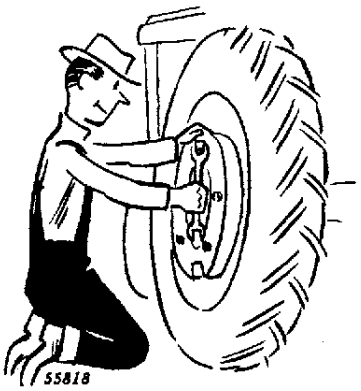
Power can be lost and tire life cut drastically by wheel slippage. Adding weight also serves to stabilize the tractor when plowing in rough or hillside fields.

LIQUID WEIGHT

Water and calcium chloride solution is an economical means of adding weight to rear wheels equipped with rubber tires. Calcium chloride solution is recommended rather than plain water as it will not freeze.

CAST-IRON WEIGHTS

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.



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