

NO. 202H TWO-BOTTOM TWO-WAY TRACTOR PLOW



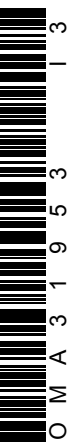
JOHN DEERE

OPERATORS MANUAL NO. 202H TWO-BOTTOM TWO-WAY TRACTOR PLOW

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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 profusely 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 the part number, description, and 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. 202H Two-Way Tractor Plow

No. of Plow **Date Purchased** 19

(To be filled in by Purchaser)

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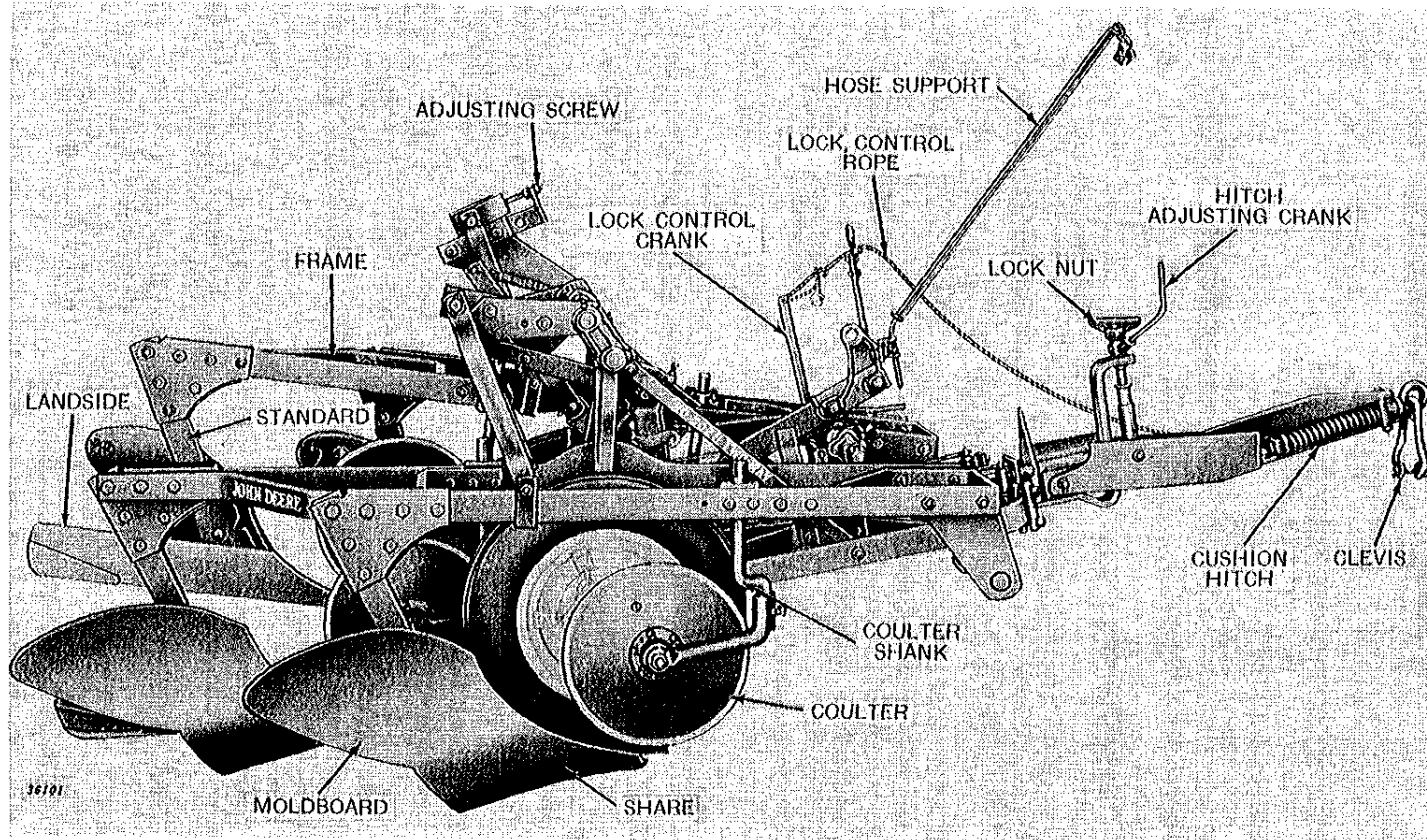


Figure 1—No. 202H Two-Way Plow

SPECIFICATIONS AND DATA

TYPE.....	The No. 202H is a two-bottom, two-way, Powr-Trol tractor plow available with either 14-inch or 16-inch bottoms. (Reducible to one bottom.)
DEPTH RANGE....	Three inches to approximately 12 inches, depending on type and size of bottom.
BOTTOMS.....	As ordered. (14-inch or 16-inch bottoms.)
HITCH.....	Plain hitch—Regular. Cushion spring hitch—Special.
COULTERS.....	17-inch plain coultter—Regular. 17-inch notched coultter—Special.
JOINTERS.....	Steel or cast independent jointers—Special.
WHEELS.....	Wheel without 5:90x15 tire and tube—Regular. Wheel with 5:90x15 tire and tube—Special. Steel—Special.
LIFT.....	Gangs are raised and lowered by remote cylinder and depth of working gang is controlled by remote cylinder.

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

Plow Bottoms, Coulters, and Jointers.

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 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.

The Tractor.

On standard or general-purpose type tractors which operate with one wheel in the furrow, the rear wheels must be set in to their narrowest setting.

The tractor drawbar should be set in the short high setting and bolted on centerline of tractor. On crawler-type tractors the drawbar should be allowed to swing freely.

Operating Plow.

The gangs are alternately lowered and raised by the remote cylinder from the transport position to plowing position. The hitch lock is unlatched automatically when working gang is raised. When it is necessary to raise and lower same gang repeatedly, as in crossing ditches or waterways, release rope from loop and allow lock control crank to swing back, as shown in Figure 2. This disengages control rod with cam ratchet and makes the locks inoperative.

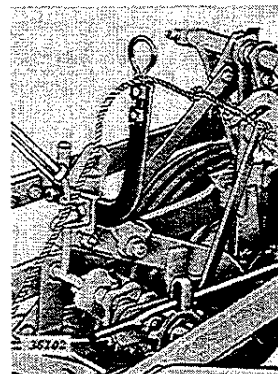


Figure 2—Lock Control Crank

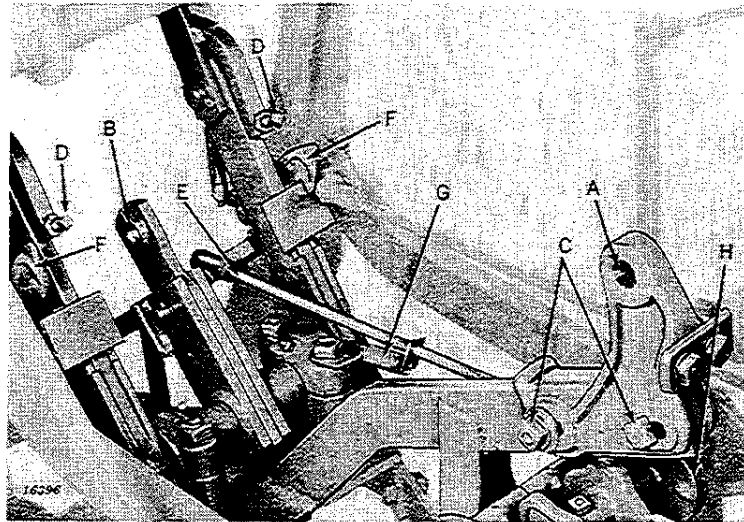


Figure 3—Attaching Cylinder

Powr-Trol Remote Cylinder.

Install the remote cylinder with spring locking pins at "A" and "B," Figure 3. Loosen the nuts on bolts "C," and extend cylinder full length.

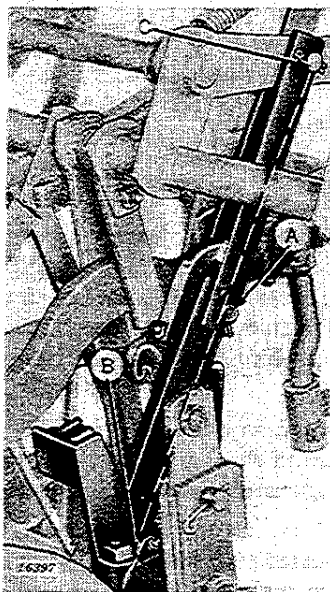


Figure 4—Adjusting Pivot

The set screw at "D," Figure 3, must be adjusted so that pivot point "A," Figure 4, will be 1/4-inch to 5/8-inch back of center if a straight line were drawn from center of shaft "B" to center of pin "C," Figure 4. Tighten the nuts on bolts "C," Figure 3.

The rod "E," Figure 3, must be adjusted at the threaded end so that locks "F" will fully engage lock plate when gang is to be lowered, and fully clear lock plate when gang is to be left in a raised position.

The spring "G," Figure 3, must be adjusted so that roller "H" will be held tight against cam at all times.

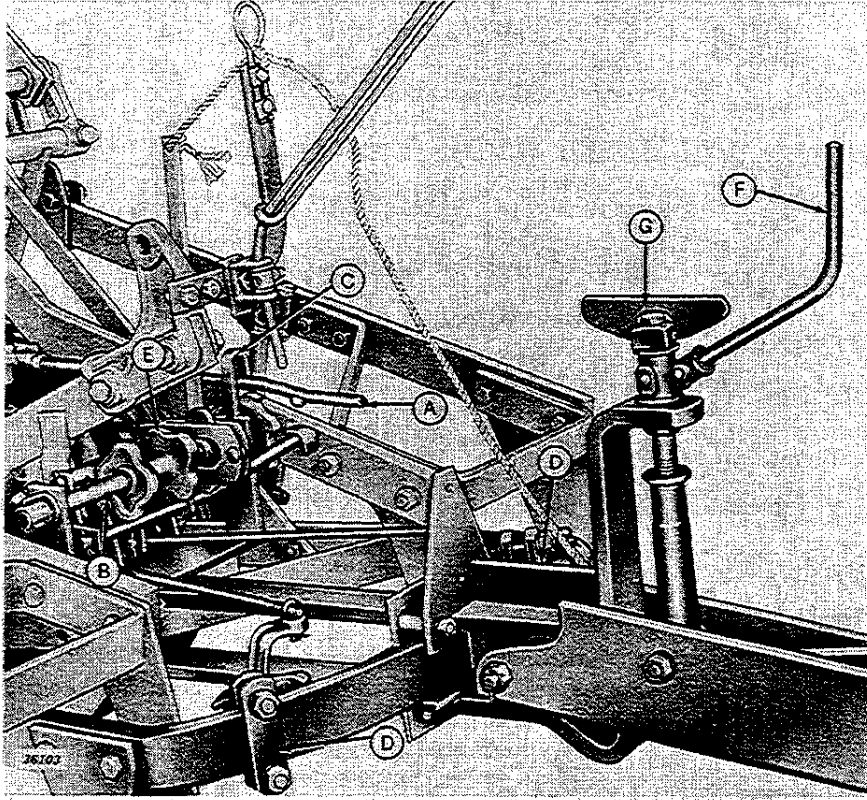


Figure 5—Adjusting Hitch

Hitch.

The proper cut of the front bottom (14-inch or 16-inch, depending on size of bottom on the plow) is obtained by moving the latch clamps "D," Figure 5, either to the right or left on the arched front bar. The front bottom should cut exactly 14 inches or 16 inches. The locks are released automatically when either gang is lifted, allowing the hitch to swing to right or left, ahead of the working bottoms.

The rod "A," must be adjusted at threaded end so that roller at "B," is in the groove of cam when hitch is engaged and on the point of cam when hitch is disengaged. When adjusting the rod "A," make sure that lugs line up squarely and do not catch on guide "C."

The hitch locks "A," Figure 6, must be adjusted at rods "B," so that locks just clear the hitch lock plate "C." Care must be taken to avoid drawing hitch lock rod too short. There must be sufficient contact between the lock and plate when hitch is engaged.

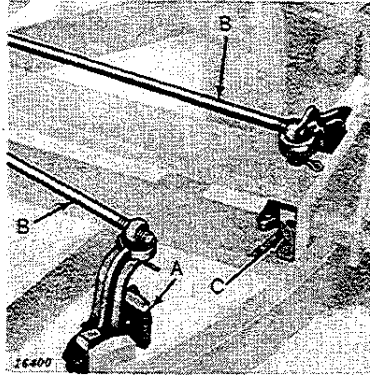


Figure 6—Hitch Lock

The hitch may be locked from one side to the other, without dropping the gangs, by turning the camshaft "E," Figure 5, by hand.

The adjusting crank "F," Figure 5, is provided for raising or lowering the hitch. It is very important that the plow be hitched to the tractor at the proper height. It is recommended that the tractor drawbar be in short high position. An improper hitch point increases the draft, causes unnecessary wear, and does a poor job of plowing. To adjust the hitch, loosen the wing nut "G," Figure 5, and raise or lower the hitch until the plow runs level, and then lock the wing nut "G." When the

hitch point is correct, the heel of the landside on the rear bottom will rest lightly on the bottom of the furrow. If the impression left by the heel is too heavy, raise the hitch to lighten the pressure at the rear of the plow. If an impression is not noticeable, lower the hitch point to increase the weight at the rear of the plow.

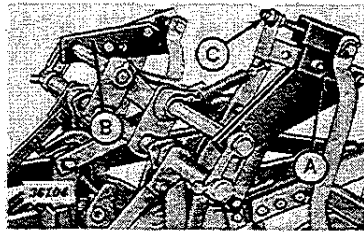


Figure 7—Depth Adjustment for John Deere Models "60" and "A" Tractors

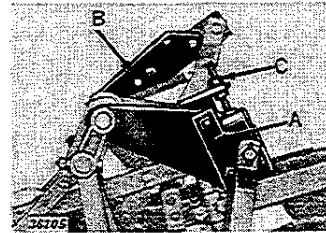


Figure 8—Depth Adjustment for John Deere Models "70" and "G" Tractors

Depth and Leveling.

The depth is controlled by the hydraulic cylinder. When the plow is to be used with John Deere Models "60" and "A" Tractors, the plates "A" and "B" must be in the short setting as shown in Figure 7. When the plow is to be used with John Deere Models "70" and "G" Tractors, the plates "A" and "B" must be in the long setting as shown in Figure 8.

NOTE: When changing the lift shaft arm plates "A" from short to long setting, they must be removed and reversed on the lift cranks with the offset toward the rear for short setting and toward the front for long setting.

The adjusting screw "C," Figures 7 and 8, will adjust the left-hand gang so that bottoms will cut the same depth as the right-hand gang.

Since both wheels run on the land, no leveling adjustment is necessary.

Rolling Coulters.

The coulters must be sharp and should ordinarily be set with the center of the coulters over point of plowshare as shown in Figure 9. In hard ground, the center of the coulters should be set well back of the point of the share and not too deep. If center of coulters is set ahead of share and too deep, it will act as a wheel, and tend to ride the plow out of the ground. For land having considerable trash, the coulters should be set ahead of the share point. For average conditions, the coulters should be set about 1/2-inch to 5/8-inch to left of, and parallel to, the landside for right-hand bottoms and 1/2-inch to 5/8-inch to right of, and parallel to, the landside for left-hand bottoms, and just deep enough to cut the trash. (See Figure 10.) Loose ground conditions will sometime require the coulters to be set wider than 5/8-inch. The coulters should be locked with the collar in such position that they will not swing into the wheels of the plow.

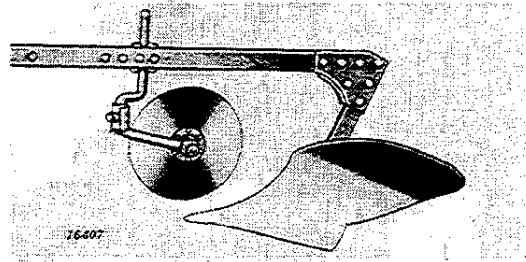


Figure 9—Rolling Coulters

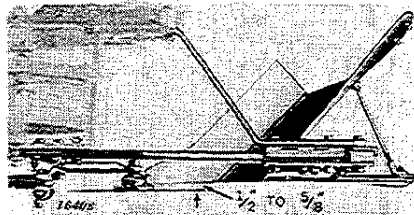


Figure 10—Overhead View of Rolling Coulters

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