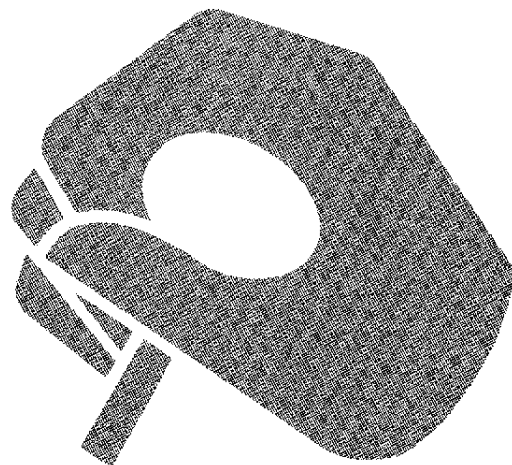


JOHN DEERE
Nos. H5 and H10
Integral Tractor Plows

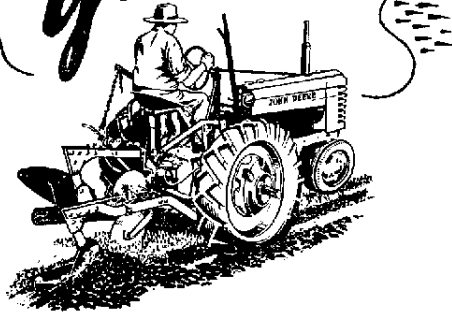
OPERATORS
MANUAL



OMA21245

LITHO IN U.S.A.

your new plow



Your new plow is of the most modern design. Its many unique and desirable features are the result of over one hundred years of plow building experience.

Your new plow was built in the world's largest plow factory. Many of the workmen in this huge plant have been building John Deere Plows for from ten to forty-five years, thus assuring the utmost in skill and good workmanship, so essential to the production of good plows.

Your new plow is made of the best materials. The parts requiring maximum strength are of high carbon steel and are heat treated.

Your new plow is equipped with "Genuine John Deere Bottoms". John Deere Bottoms are especially designed to operate in the type of soil that you have on your farm. They are light in draft, they scour well, have a long life, and leave a good seed bed.

Your new plow has been especially designed to work as an integral part of your John Deere Model "H" Tractor. It is easy to attach. It is easy to detach. It is easy to adjust so that it will do good work.

Your new plow will make better seed beds when properly set up and adjusted. This Operator's Manual has been carefully prepared by plowing experts. Study it carefully. Make it your guide. We are proud that you selected a John Deere Plow; if the suggestions found in this manual are followed carefully, you will be proud that you own one.

Your new plow will perform at its best only when the bottoms are equipped with "Genuine" John Deere Shares. A knife is no better than its blade; a plow bottom is no better than its share. Keep your John Deere Plow a John Deere Plow by using only "Genuine John Deere Shares."

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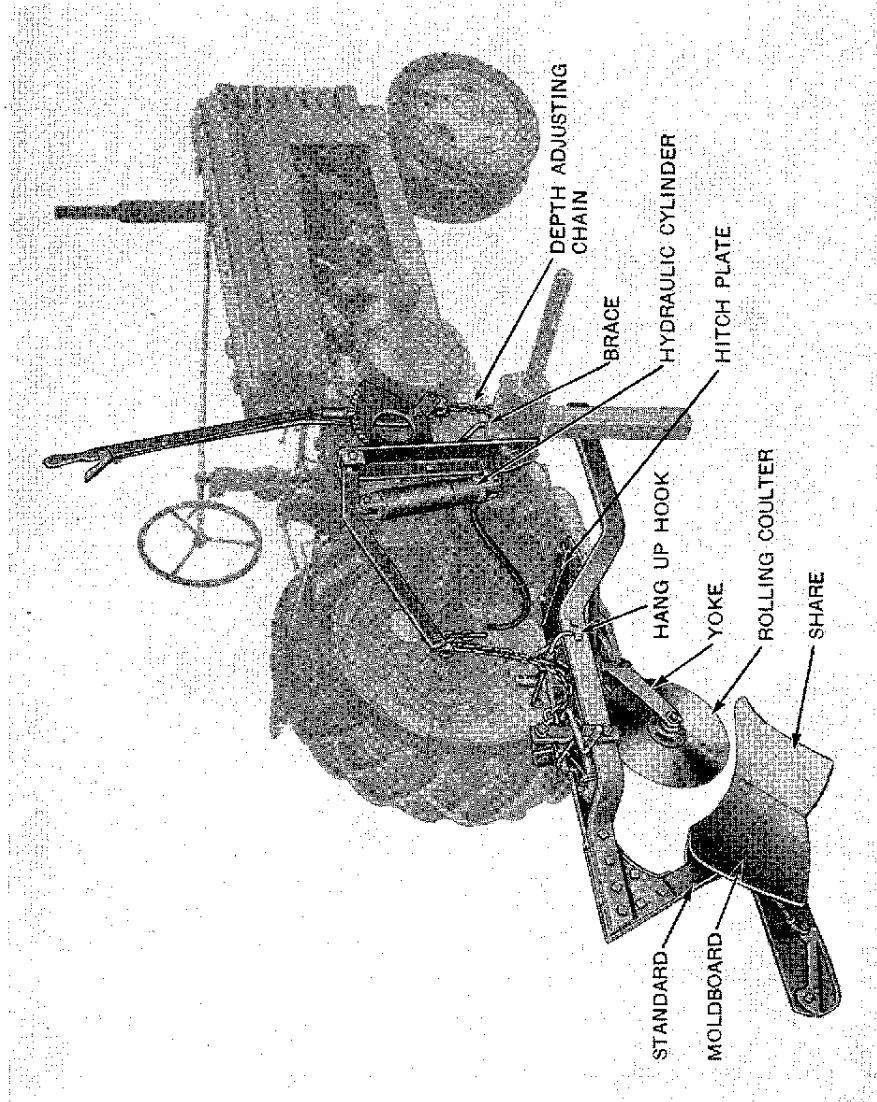


Figure 1—John Deere No. H-5 Tractor Bottom Integral Tractor Plow

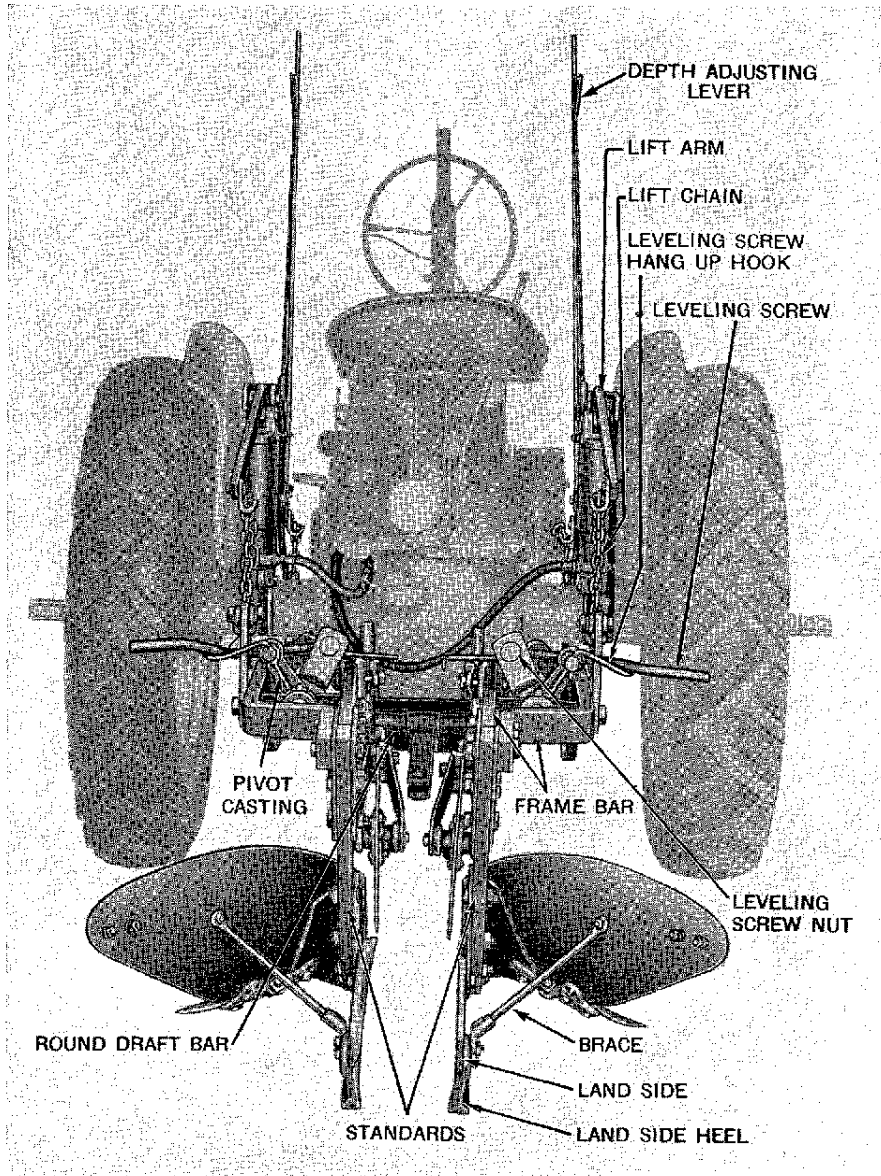


Figure 2—John Deere No. H-10 Two-Way Integral Tractor Plow

SPECIFICATIONS AND DATA

- Types—** No. H-5 is a quick attachable one-bottom 14-inch or 16-inch Integral Tractor Plow for the John Deere Model "H" Tractor.
- No. H-10 is a quick attachable one-bottom 14-inch or 16-inch Two-Way Integral Tractor Plow for the John Deere Model "H" Tractor.
- Depth Range—** 4-inch to 12-inch depending on type and size of bottom.
- Bottoms—** As ordered. Various types available.
- Landside—** Bottom with No. 6 type long landside.
- Hitch—** Quick attachable.
- Coulter—** 15-inch Plain only.
- Jointer—** Steel or cast independent jointers available when ordered.

(Detail design subject to change without notice.)

OPERATING AND ADJUSTING THE PLOW

Good Plowing:

This plow, when carefully adjusted for operation in the type of soil and for the field conditions found on your farm, will do a good job of plowing at a minimum expense. A well adjusted plow is lighter; its furrow slices are uniform in width and depth; it covers the trash better; it leaves the soil in proper condition to be worked down into the best type of seed bed.

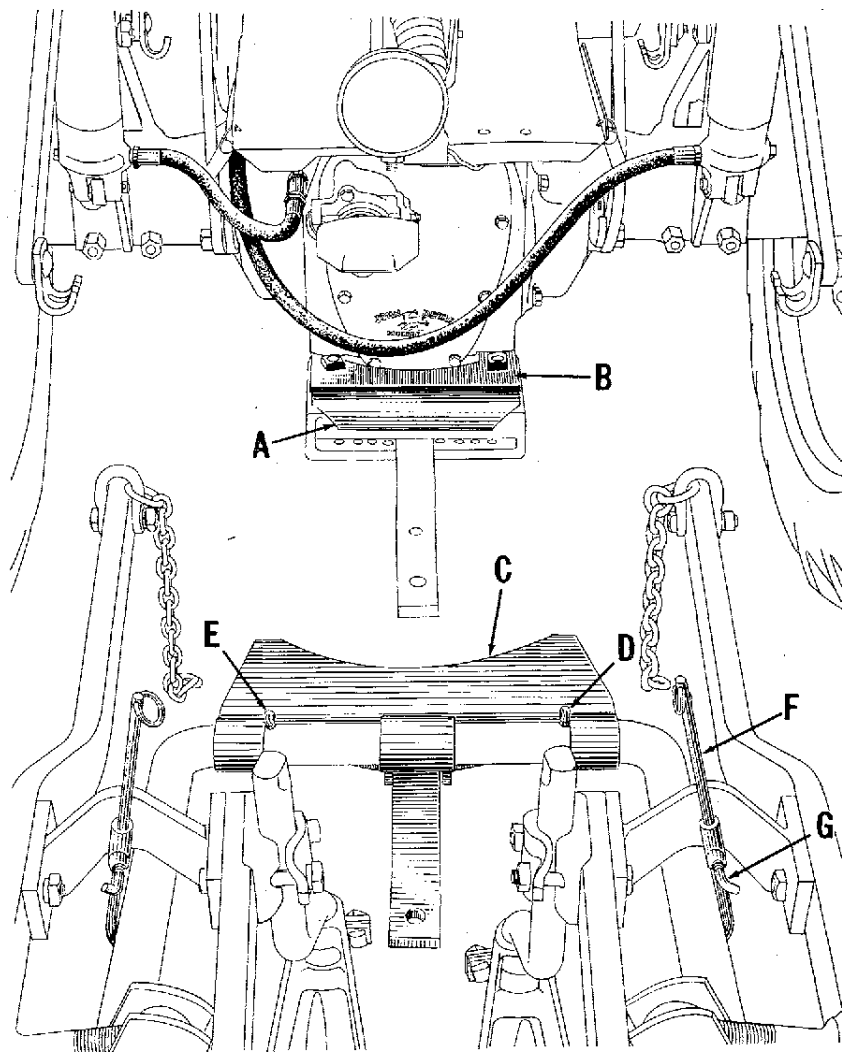


Figure 3—No. 131 Hitch

Hitch.

The hitch operates on a radius permitting the plow to swing to the right or left when operating in average conditions. It is ideal for plowing around curves or on hillsides, maintaining uniform depth and an average width of cut.

When finishing up a land or for plowing in unusual conditions, it may be found helpful to pin the hitch solid to the drawbar.

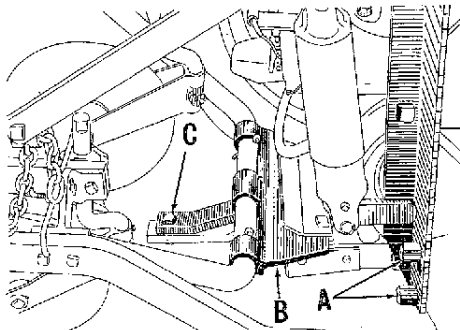


Figure 4—Hitch

Place a short bolt in the two outside holes of the drawbar bracket.

Attaching Plow to Tractor.

When the hand adjusting levers and cylinders have been mounted on the tractor and the plow has been set up, the H-10 will appear as Figure 3, page 5. The H-5 will appear similar, but is not provided with the left-hand frame.

The hang-up hook "F", Figure 3, must be adjusted so that plate "C" will be at the correct height to insert between guide plates "A" and "B",

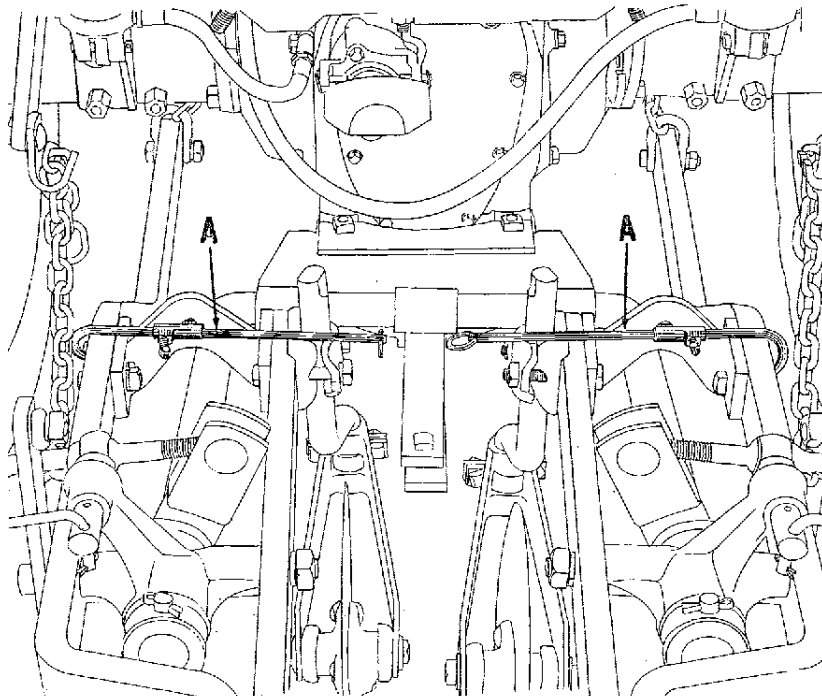


Figure 5—Hang-Up Hooks

Figure 3. Back tractor up until plate "B", Figure 4, is inserted between plates on tractor drawbar, and until the hitch plate bracket can be bolted to tractor drawbar at "C", Figure 4. Release hang-up hook and place on frame as shown at "A", Figure 5. Attach lifting chain to lift arm. Attach chains on front end of frame bar to depth lever as shown in Figures 1 or 2.

Detaching Plow from Tractor.

Drop the plow on comparatively level ground. Unhook the rear lift chain and front depth adjusting chain. Place the hang-up hook "F", Figure 3, under the round draft bars and tighten the screw "G", Figure 3. Remove bolt "C", Figure 4, from the drawbar and move the tractor forward.

Depth Lever and Chain.

The lever is provided for changing the depth of plowing. The chain that is attached to the front end of the long frame bar is hooked on to the lower end of the lever, Figure 1. Adjust length of chain to obtain desired plowing depth while lever is set in the center of ratchet, thus providing plenty of range on ratchet for deeper or shallower plowing as required. The depth adjusting chain will always be tight when plowing.

Hydraulic Cylinder.

The H-5 Integral Plow or the H-10 Two-Way Integral Plow are raised and lowered by the Hydraulic Cylinder. No hand lift levers available.

Leveling Screw.

The leveling screw is provided for leveling the bottom when in the working position. The leveling screw enables the operator to have the bottom perfectly level when either opening up a field or for ordinary plowing. **NOTE:** The leveling crank hang-up hook must be placed under the leveling crank to hold it in the rear position as in Figure 1. Otherwise tractor tire will strike crank when making short turns.

Lifting Chains.

The rear lift chain is provided for lifting the plow. The length of this chain determines the height of lift of the plow for transporting. The chain should always be slack when the plow is in the plowing position. Otherwise the plow will not penetrate properly and poor plowing will result.

Rolling Coulters.

The coultter blade must be sharp and should be set $1/2''$ to $5/8''$ to the left of and parallel to the land-side of the bottom. See Figure 6.

The coultter is provided with a collar to hold the yoke to the shank and also to keep the coultter from swinging completely around. This collar should be adjusted on the shank to allow the coultter to pivot when turning either way. Incorrect setting of coultter is illustrated in Figure 8.

Excessive End Play.

To remove excessive end play in coultter hubs, loosen nut "A", Figure 9, turn bolt head "B", Figure 9, to the right until end play is removed. Adjust so that coultter blade will turn freely and tighten nut.

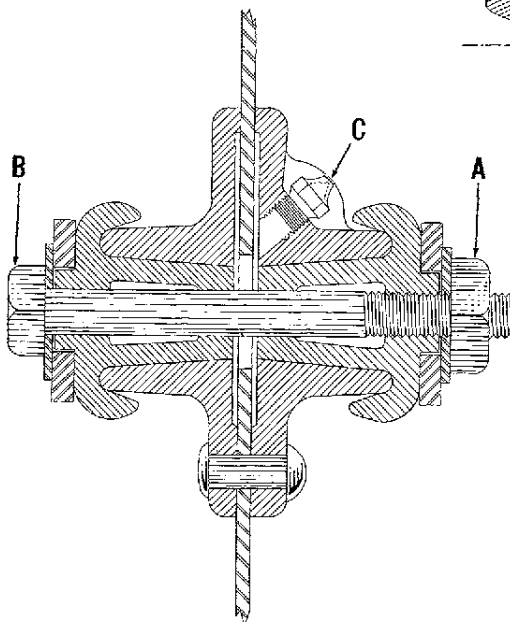


Figure 9—Cross-Sectional View of Coultter Hub

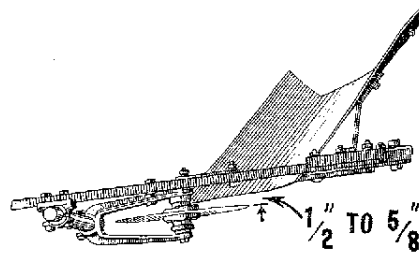


Figure 6—Overhead View of Rolling Coultter

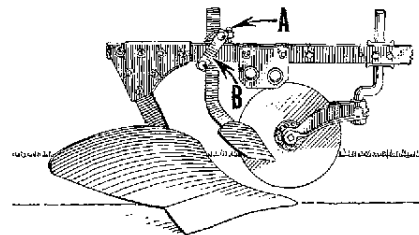


Figure 7—Rolling Coultter and Independent Jointer

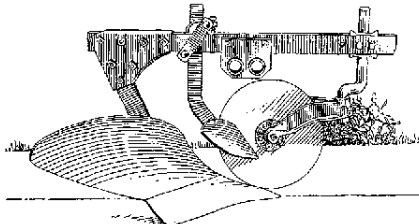


Figure 8—Rolling Coultter Set Too Deep

Jointers.

Jointers assist the plow bottom in turning under and covering trash, leaving the plowed land clean. They are of a special benefit in turning the furrow slice properly when plowing at high speed.

To Adjust Jointers.

A set screw "J", Figure 19, is provided with the jointer clamp to enable the operator to move the jointer forward or to the rear. To move the jointer toward or away from the coultter blade, loosen one nut and tighten the other on the two bolts that hold the jointer clamp to the frame "H", Figure 19, page 14.

MAINTENANCE SUGGESTIONS

Plow Bottoms, Coulters and Jointers.

Protect the face of the moldboard, share, coulter-blade, landside, and jointer from rust between plowing seasons or intermittent periods by greasing the polished surface with a coat of cup grease or hard oil.

Sharpening the Share.

Heat the point of the share to a low cherry red (not too hot), and hammer the top side until the point is sharp. Hammer at cherry red only. High heat destroys the quality of the steel. Draw the entire cutting edge from the underside until sharp. Heat at one time only as much can be hammered. The body of the share should not be heated while sharpening. Should the fitted edges become warped, put the blade in proper shape before hardening. This can be done best at a black heat.

All foregoing information applies to either hard or solid steel shares.

Hardening Soft-Center Steel Shares: Heat the entire share to a uniform cherry red. Dip the share into a tub of clean, cold water, with the cutting edge down, and the blade perpendicular.

Note: Solid or crucible steel shares should not be hardened.

Setting Shares.

Set the point of the share down until there is a $1/8$ to $3/16$ -inch suction under the landside at point "A" Figure 11. See that the clearance in the throat of the share at "B", Figure 12, is at least $1/8$ -inch. For side, set should be about $3/16$ -inch clearance at "C", Figure 13. Set the edge of the share at the wing point "D" without wing bearing (Figure 14).



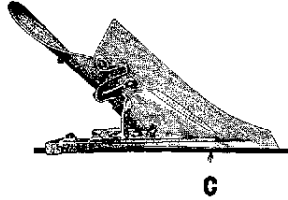
Figure 10—Unbroken Lines in Overhead and Side Views of Share Above Show Correct Shape for Penetration. Dotted Lines Show How Worn Point Looks Before Sharpening



Figure 11—Share Should Have $1/8$ to $3/16$ -Inch Underpoint Suction at Point "A"



Figure 12—Share Should Have at Least $1/8$ -Inch Clearance in Throat at "B"



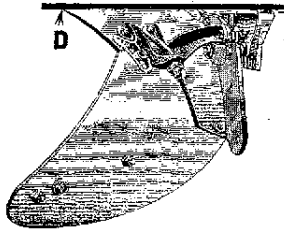
*Figure 13—Side Suction
Should be 3/16-Inch at
Point "C"*

Keep Your John Deere Plow a John Deere Plow.

Genuine John Deere Shares have more and better material in points and in wearing surfaces. "Deere" shares stay sharp longer, they fit like the original share. They save you money. Buy your extra shares from your John Deere dealer and insist on shares with the word "DEERE" stamped in the back near the share number.

Sharpening the Coultter Blade.

Remove the yoke and blade from the shank and grind the blade on an emery wheel until sharp. After repeated sharpenings the blade may be too small to do efficient work. Replace with a new one.



*Figure 14—Tractor Plow
Shares Are Set Without
Wing Bearing at "D"*

Keep Nuts Tight.

Tighten all nuts. The nuts on the plow bottoms should be inspected periodically. Replace bent bolts or bolts with stripped threads. Loose parts come off or bend easily.

Lubrication Instructions.

Alemite hydraulic lubrication fittings are provided on the rolling coultter hub and should be lubricated twice daily. All working parts should be oiled twice daily with an oil can containing a good grade of lubricating oil.

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