

J D CORRUGATOR ATTACHMENT FOR 2 1/4 INCH SQUARE TOOL BARS



JOHN DEERE

OPERATORS MANUAL J D CORRUGATOR ATTACHMENT FOR 2 1/4 INCH SQUARE TOOL BARS

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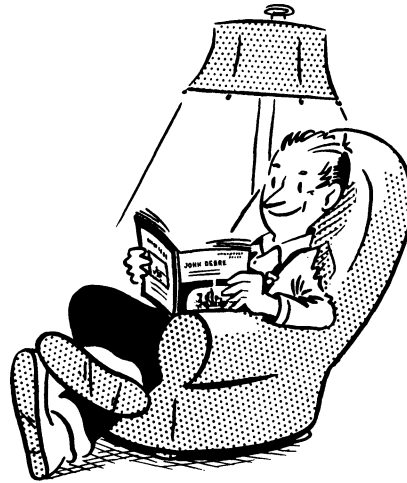


TO THE PURCHASER

This operator's manual has been carefully prepared and illustrated to provide the necessary information regarding installation, operation and adjustments so that you may obtain maximum service and satisfaction from your new corrugator.

If you find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation of your corrugator. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

Occasionally, your corrugators may need new parts to replace worn parts. If you will furnish your dealer the description, and the information which should be recorded at the bottom of this page when the corrugators are delivered, he can give you prompt and efficient parts service.



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Study this manual carefully and keep it in a safe place for future reference.

JOHN DEERE CORRUGATOR

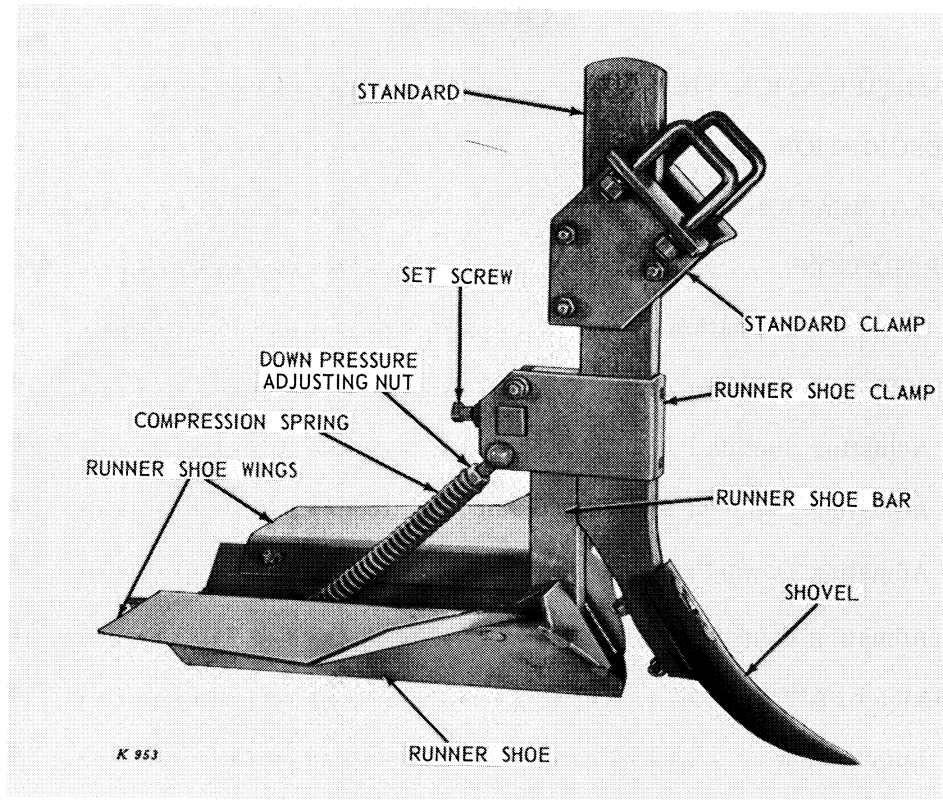
Runner Shoe: V-Bottom ☐
Round Bottom . . . ☐

Opener: . . Shovel ☐
Point ☐

Date Purchased 19 . . .
(To be filled in by Purchaser)

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John Deere Corrugator Attachment

DESCRIPTION

The John Deere Corrugator is designed as an attachment for use with integral or drawn tool carriers with a 2-1/4-inch square tool bar. The number of corrugator units used depends on the capacity of the tractor power lift, in the case of integral carriers, and the length of tool bar.

The corrugator makes clean, well-packed irrigation ditches approximately 8 inches wide and 4-1/2-inches deep. The ditches will save water, reduce soil erosion, and insure more uniform crop growth. It can be used in preparing finished seedbeds for irrigation or in re-corrugating alfalfa or other crops.

The corrugator is a completely self contained unit. It consists of a standard with shovel or point and a runner shoe with wings and down-pressure spring. The runner shoe is made of high-carbon abrasion resistant angle steel.

The shovel is used when corrugating in a finished seedbed and when

re-corrugating alfalfa or other crops. The point is used in place of the shovel when corrugating in hard ground such as an open field that has not been worked.

The shovel or point opens up the land and is followed by the runner shoe which smooths the soil on the sides, forming an ideal irrigation ditch. The ditch is properly shaped and well packed to resist undercutting by water and breakdown by tractor wheels or cattle.

The shovel or point cuts below the runner shoe, leaving the subsoil open for moisture penetration. In sandy soil conditions where hard, packed ditch bottoms are desired, the shovel or point can be adjusted for shallower cut so they will not penetrate below the runner shoe.

Suction, down-pressure, and height of standard are adjustable to adapt the corrugator for use with different planters.

SPECIFICATIONS

TOOL BAR REQUIREMENTS	Any 2-1/4-inch square tool bar.
MINIMUM SPACING	22 inches
APPROXIMATE DITCH SIZE	8 inches wide x 4-1/2-inches deep.
STANDARD SHANK	1 x 3 inches, high-carbon steel.
STANDARD POINT	1-3/4 x 13 inches.
STANDARD SHOVEL	4-1/2 x 11 inches.
STANDARD CLAMP	Adjustable, for 2-1/4-inch square bar.
RUNNER SHOE WINGS	Bed size, 21 inches wide x 16 inches long, 3/16 inch thick.
RUNNER SHOE	Angle steel, 6 x 6 x 5/16 inches, high-carbon abrasion resistant.
SHIPPING WEIGHT	87 pounds.

(Specifications and design subject to change without notice.)

OPERATION

GENERAL INFORMATION

It is very important that you operate and adjust your new corrugator correctly. For efficient work, read the following instructions closely.

For complete tractor and tool carrier operating instructions, refer to the Operator's Manuals received with your tractor and tool carrier.

Before entering the field, make

sure all nuts and bolts are tight so the corrugator units fit snugly on the tool bar. Check the units for proper placement on the bar as explained below. Make sure you get the desired ditch spacing.

After a few hours of operation, check set screw holding runner shoe bar and retighten if necessary.

SPACING CORRUGATOR UNITS

The minimum spacing between ditches with two or more corrugator units is 22 inches. Any wider spacing is obtainable, limited only by the width of the tool bar.

To determine the location of the corrugator units on the tool bar for various ditch spacings first raise the tool carrier to its maximum lift position and locate the center of the tool bar.

If using one corrugator, place it in the center of the tool bar.

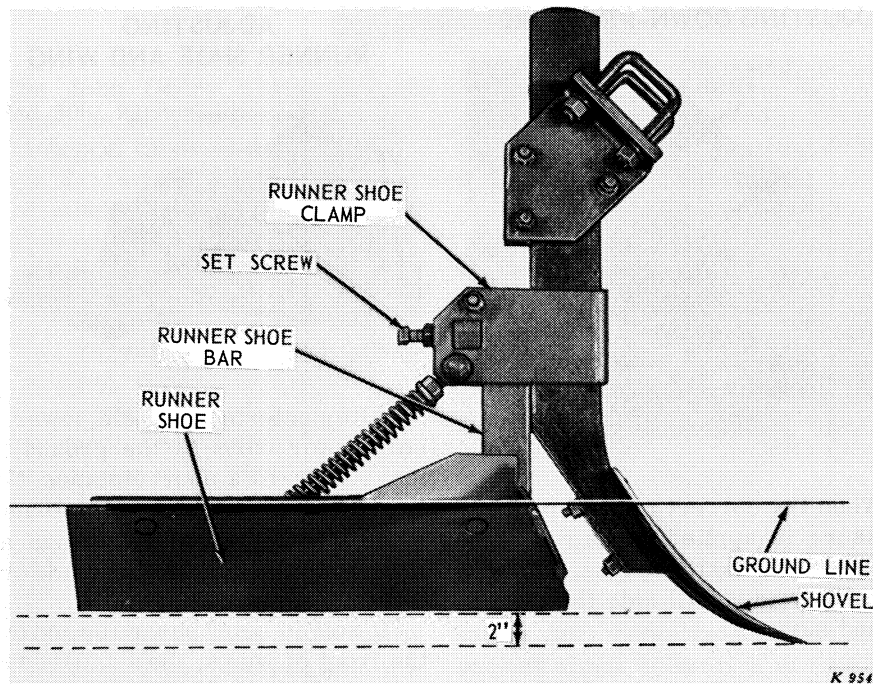
If using two or any other even number of corrugator units, measure one-half the desired spacing out from the center in both directions and mark the tool bar. For each addi-

tional unit, measure the desired spacing outward on the tool bar and again mark the bar.

If three or any odd number of units are used, place one unit at the center point on the bar and measure the desired spacing outward on the bar for the additional units.

Attach the corrugator units to the tool bar with clamps centered on the spacing marks.

NOTE: The standard clamp is designed to allow adjustment of standard length by sliding standard through the clamp. Set standard at its shortest length when the extra length is not needed.



Working Position

ADJUSTING SUCTION

When corrugator is used on an integral tool carrier, keep the top edge of the runner shoe clamp parallel to the "ground line" when the corrugator is in working position. To adjust, rotate tool bar by shortening or lengthening the tractor hitch upper link.

When corrugator is used on a drawn tool carrier, keep the carrier frame level with "ground line" to give correct suction to corrugator standard.

ADJUSTING DEPTH OF SHOVEL OR POINT

For normal soil conditions, the shovel or point should run approximately 2 inches below the bottom of the runner shoe to loosen the soil for good moisture penetration. See illustration above.

In sandy soil or very porous soil where a firm ditch bottom is required,

the shovel or point should run level with bottom of the runner shoe.

To adjust shovel, loosen the jam nut and set screw holding the runner shoe clamp and raise or lower the runner shoe. Then tighten set screw and jam nut securely.

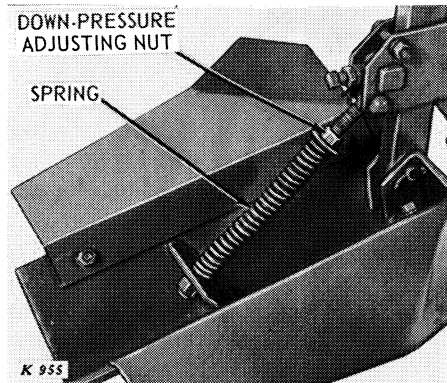
To set runner shoe level with point when using the Q1154K point, it is necessary to lower the runner shoe bar in clamp as the point limits the lowering of the clamp.

When the corrugator is working correctly the ditch will have firm edges, packed shoulders, and sloping sides. In normal soil, the ditch bottom will be loose, and in sandy soil it will be firm.

NOTE: When corrugator is used on integral tool bar, depth of shovel or point and runner shoe are gauged by the tractor rockshaft control lever. Therefore, when operating on uneven ground, gauge wheels should be used in conjunction with the tool bar.

6 Operation

ADJUSTING DOWN-PRESSURE

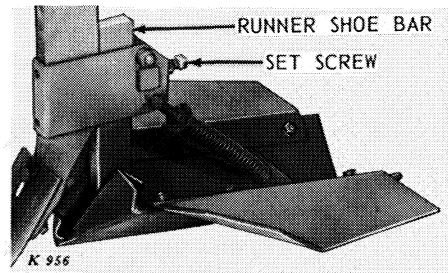


When the correct amount of down pressure is applied to the rear end of runner shoe by the spring, the runner shoe wings will ride flat on the ground surface.

The down-pressure adjustment of the rear end of runner shoe is made by the down-pressure adjusting nut.

To adjust for more down pressure, turn the adjusting nut to compress the spring. To decrease the down pressure, back off the nut.

ADJUSTING RUNNER SHOE AND WING



After entering the field, lower the corrugator units to the ground and move forward a short distance. Note the type of ditch that is being formed. When runner shoe and wings are properly adjusted, they will ride over the soil, compressing it.

If soil is being pushed up and over the front of wings, the standards are set too deep or the runner shoe and wings are too low in front.

To adjust runner shoe and wings, loosen set screw and raise runner shoe bar up through the clamp. Tighten set screw to hold adjustment.

If soil is still spilling over the front of wings after the runner shoe and wings have been tilted up at the front as much as possible, check the standard suction. See page 5. Standard must be perpendicular.

Also add more down pressure on spring to adjust rear of wings down.

MAINTENANCE

LUBRICATION

The corrugator requires no lubrication, but at the end of each job, cover the shovel with heavy cup or gun grease, or rust preventive.

STORAGE

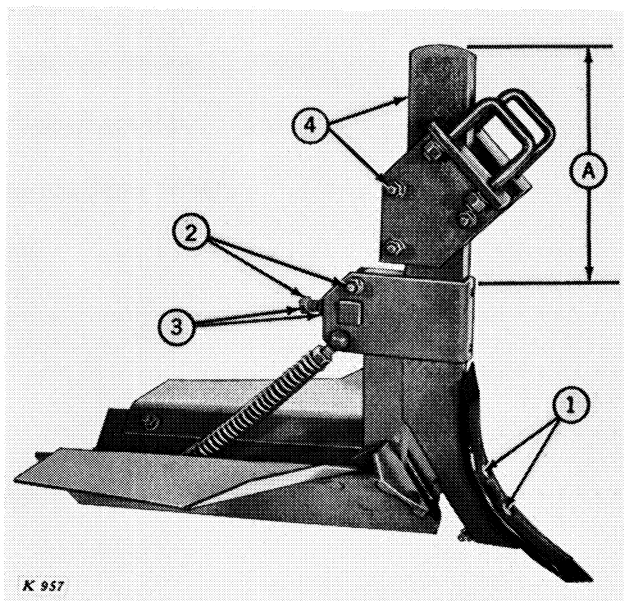
At the end of the season, remove collected dirt and paint any exposed parts. Cover the shovel or point with heavy cup or gun grease, or rust preventive, and store the corrugator in a dry place.

ASSEMBLY

SHIPPING BUNDLES

Quantity	Bundle No.	Description
1	BK 37621 K	Corrugator
1	Y 966 N	Shovel
1	Q 1154 K	Point
*	4443 K	6-Inch Spacer Bar Clamp

**NOTE: When four or more corrugators are used, a second bar with 6-inch spacer bar clamps are used for added support. Order quantity needed.*



The corrugator is assembled complete (less shovel or point) at the factory.

1. Attach shovel or point.

2. Set runner shoe by moving clamp up or down to meet soil requirements.

3. Tighten set screw and lock with jam nut.

4. Set clamp at shortest standard position required.

NOTE: Inform customer to check set screw holding runner shoe bar after a few hours of operation, and retighten if necessary.

Runner Shoe Position	Normal Soil Dimension A	Sandy Soil Dimension A
2" above Shovel	10-1/4"	
2" above point	9"	
Even with Shovel		13-1/2"
Even with point		11"

MEMORANDA



nobody can fill them like you can!

That's what the owner of this pair of work shoes is finding out—the hard way. Through a careless action, he has become the victim of an accident. It's a mighty tough way to find out that nobody else can wear your shoes or practice safety for you. And a needless, costly lesson to learn that safety is an everyday need.

Put safety into each of your workdays; read the operator's manual thoroughly; know how to operate each machine properly and safely; take the safety precautions specified; think before you act.

Make sure you wear your "shoes" everyday. Outfit yourself with a safety program now.

As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to emphasize and call attention to the safety precautions in this manual.



