



**LIFT
TYPE**

RIGID SHANK CULTIVATOR



ASSEMBLY and OPERATING

Instructions

DEARBORN MOTORS CORPORATION — DETROIT 3, MICHIGAN

www.ntractorclub.com

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Introduction

The Dearborn Lift Type Rigid Shank Cultivator is one item of the basic line of Dearborn Farm Equipment. Like all Dearborn equipment, this Rigid Shank Cultivator has been designed for use with the Ford Tractor and has been built to aid you in the performance of specific agricultural operations.

The Rigid Shank Cultivator is a most effective and versatile cultivator for the majority of row-crop cultivation requirements. Powered by the Ford Tractor, the strong shanks of the cultivator enable the shovels to easily break through the soil crust to aerate the soil and promote vigorous crops.

The efficient and economical operation of the Rigid Shank Cultivator when attached to the Ford Tractor, saves labor and increases yields. The cultivator can be easily attached and adjusted to meet a wide variety of uses.

This manual contains information about the Dearborn Rigid Shank Cultivator, its assembly, operation and care. Follow the instructions in this manual in detail to get the most out of your cultivator.

Your Ford Tractor dealer will instruct you in the operation and adjustment of the cultivator. He will show you how the depth of penetration may be controlled by use of the Ford Hydraulic Touch Control Lever, and how you can raise or lower the cultivator without leaving the seat of your tractor.

Your Ford Tractor dealer has the answer to questions that may arise regarding the operation of your Dearborn Equipment. He is interested in your getting the most out of your investment in this implement. He has plenty of "know how" to help you get started right.

In addition, your Ford Tractor dealer carries a complete stock of genuine Ford Tractor and Dearborn Equipment Repair Parts. These parts are precision manufactured, assuring high quality and accurate fit. *Insist on genuine Ford Tractor and Dearborn Equipment Repair Parts.*

DESCRIPTION OF THE RIGID SHANK CULTIVATOR

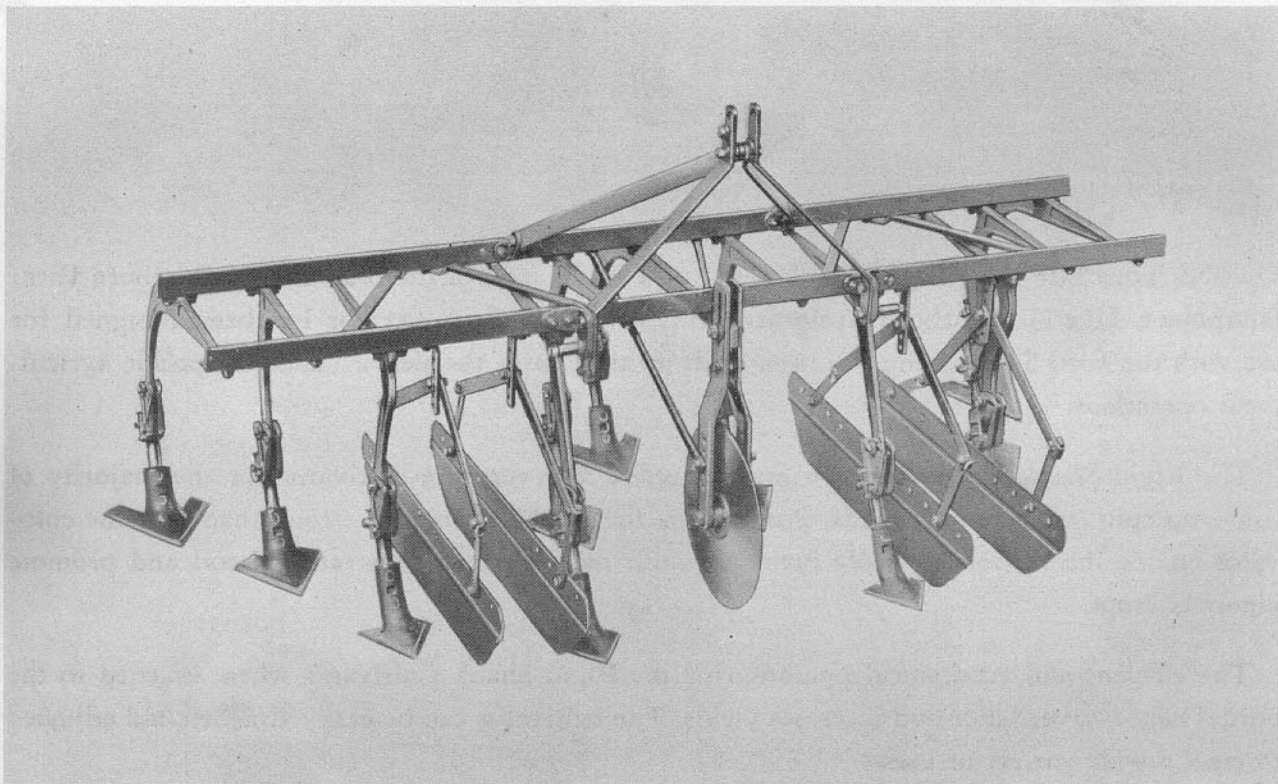


Figure 1

The Dearborn Lift Type Rigid Shank Cultivator, pictured above, is a sturdily constructed implement designed to give many years of trouble-free service.

The frame is made of high quality steel. It is light in weight, yet provides a maximum amount of strength. The shanks are made of a special, forged steel.

The Rigid Shank Cultivator is easy to attach and easy to operate. The cultivating

depth is controlled from the tractor seat by means of the Ford Hydraulic Touch Control Lever. The steering pointer on the right front tractor axle makes it easy for the operator to follow the rows without having to look back at the cultivator.

The shanks and fenders can be speedily adjusted to accommodate row widths up to 42". In addition, the shovels may be adjusted in three different ways to fit the contour of the crop rows.

EXPLODED VIEW OF THE RIGID SHANK CULTIVATOR

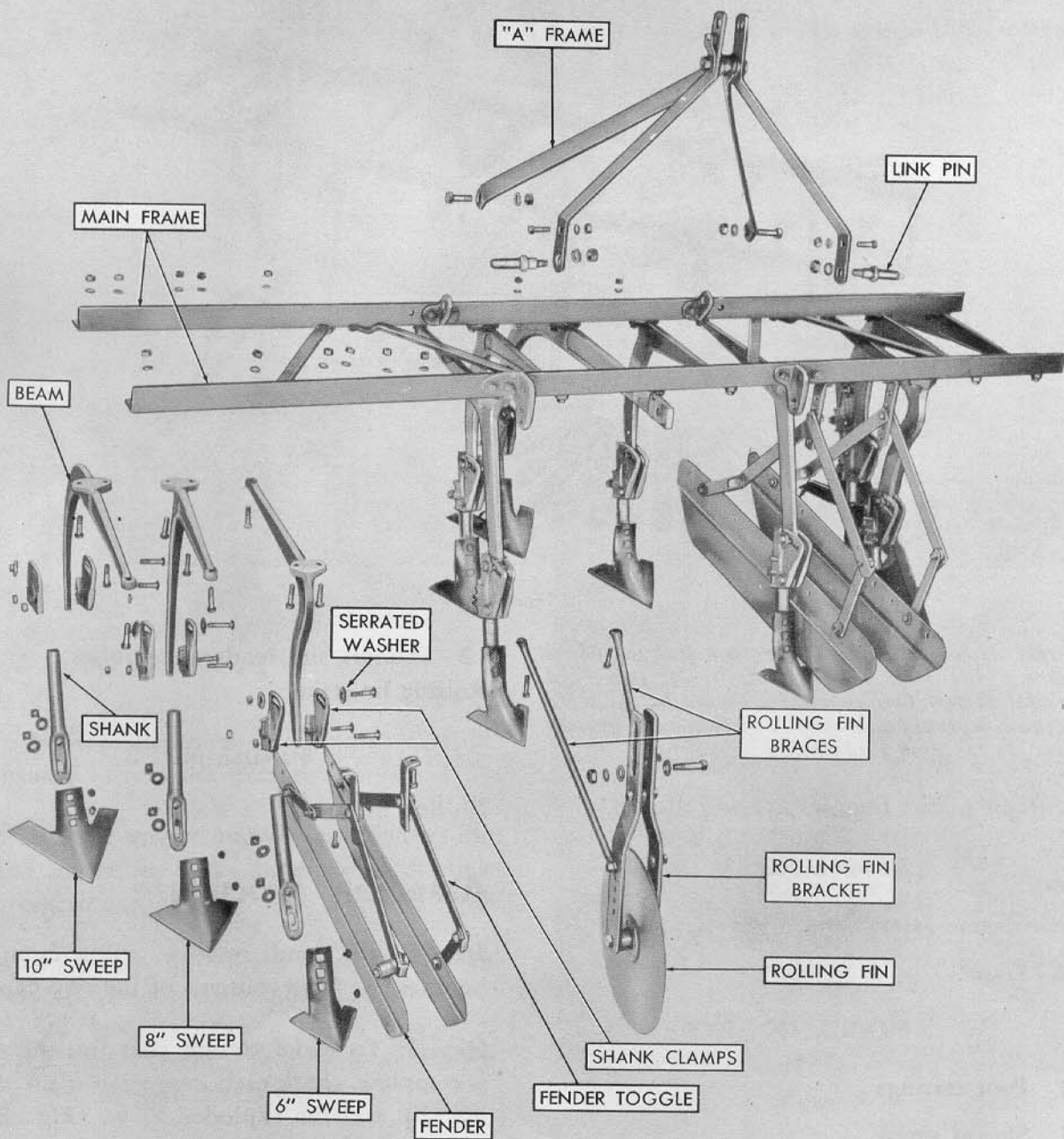


Figure 2

ASSEMBLY OF THE RIGID SHANK CULTIVATOR

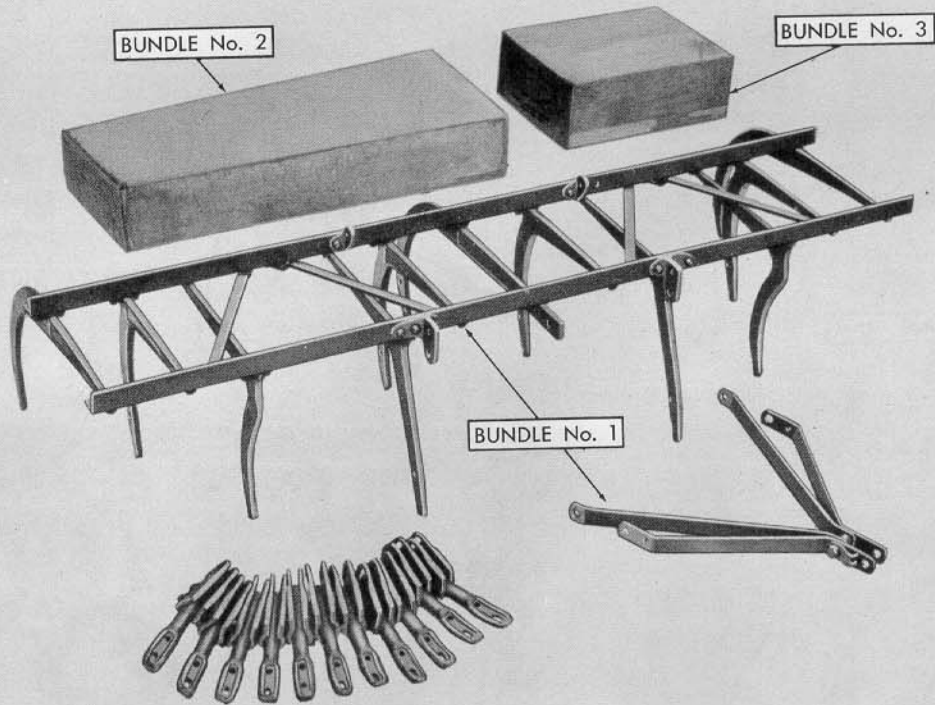


Figure 3

NOTE: Assembly of the Dearborn Lift Type Rigid Shank Cultivator is the responsibility of your Ford Tractor dealer. The implement should be delivered to you completely assembled. The following instructions are for your guidance, in case of need.

Contents of the bundles are as follows:

BUNDLE NO. 1

Main frame assembly

"A" frame

BUNDLE NO. 2

11 Foot castings

11 Shovel stems

3 10" Sweeps

4 8" Sweeps

4 6" Sweeps

2 Fenders and fender assemblies
Rolling fin struts

BUNDLE NO. 3

Rolling fin

Assembly Procedure

Step 1: Cut and remove wires from all bundles. Remove contents of the two cartons.

Step 2: To make certain that the shipment is complete, check each item against the packing slip and the exploded view. (Figure 2.)

Step 3: Attach the "A" frame to the main frame at the points shown in Figure 2, with the short arms of the "A" frame forward and the link pin clip on the right side.

ASSEMBLY OF THE RIGID SHANK CULTIVATOR

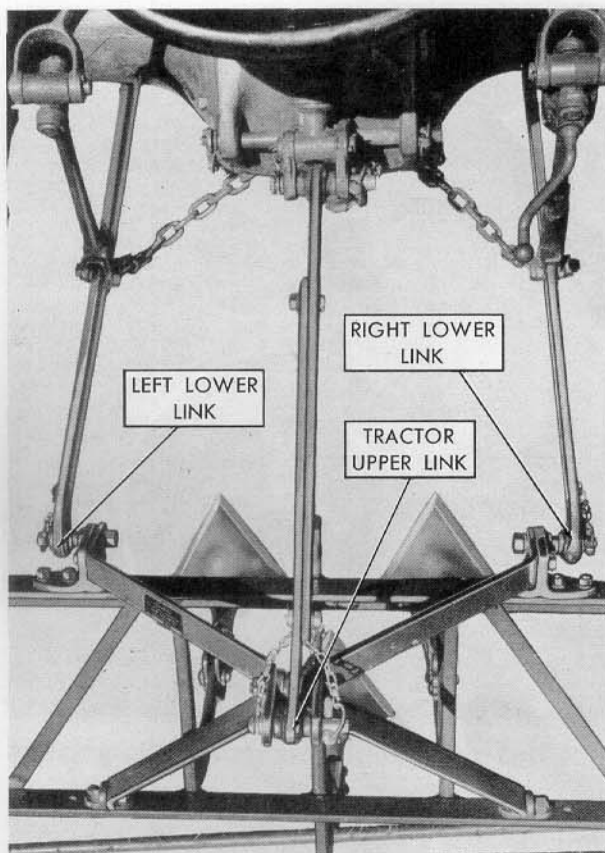


Figure 4

Step 4: Place the main frame on level floor or ground behind the tractor.

Step 5: Back tractor into position so that the tractor connecting links line up with the link pins on the cultivator.

Step 6: Attach left lower link as shown above. Secure with lynch pin.

Step 7: Attach right lower link as shown above. Secure with lynch pin.

Step 8: Position tractor upper link in "A" frame and secure with lynch pin.

Step 9: Raise the cultivator to transport position with Hydraulic Touch Control Lever.

Step 10: Attach foot castings to cultivator shanks. Tighten bolts finger tight. Assemble the serrated washer and foot casting.

Step 11: Attach shovel stems to foot castings. Note markings and put all shovel stems in the same position. Tighten all bolts securely.

Step 12: Attach 10" shovels.

Step 13: Attach 8" shovels.

Step 14: Attach 6" shovels.

Step 15: Assemble the rolling fin and attach to the main frame as shown in Figure 5.



Figure 5

Step 16: Assemble the fenders and attach to the main frame, as shown in Figure 2.

Step 17: Attach steering pointer to right front axle of tractor, as shown in Figure 7.

OPERATION OF THE RIGID SHANK CULTIVATOR

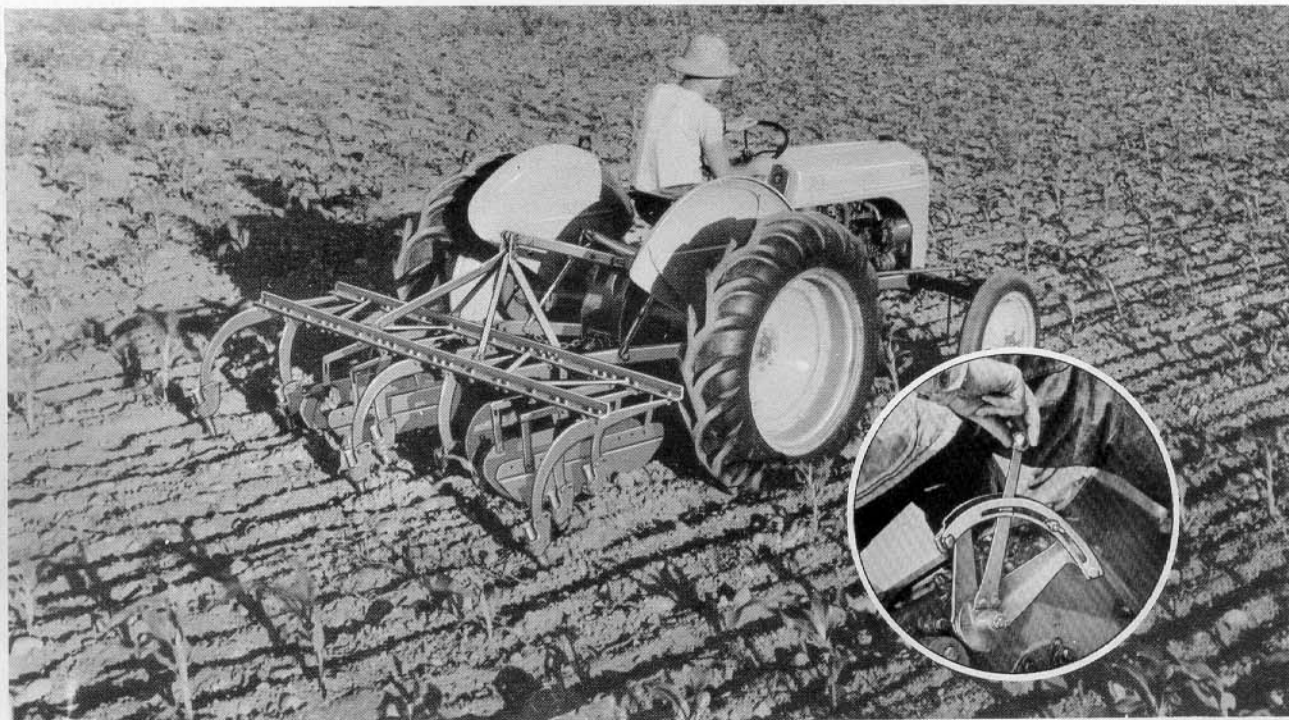


Figure 6

DETACHING RIGID SHANK CULTIVATOR FROM TRACTOR

Step 1: Disconnect tractor upper link from "A" frame.

Step 2: Disconnect right lower link.

Step 3: Disconnect left lower link.

CAUTION: *Be sure that the Cultivator is completely disconnected before attempting to move the tractor.*

The cultivator is raised and lowered by the Ford Hydraulic Touch Control and is guided by steering the tractor.

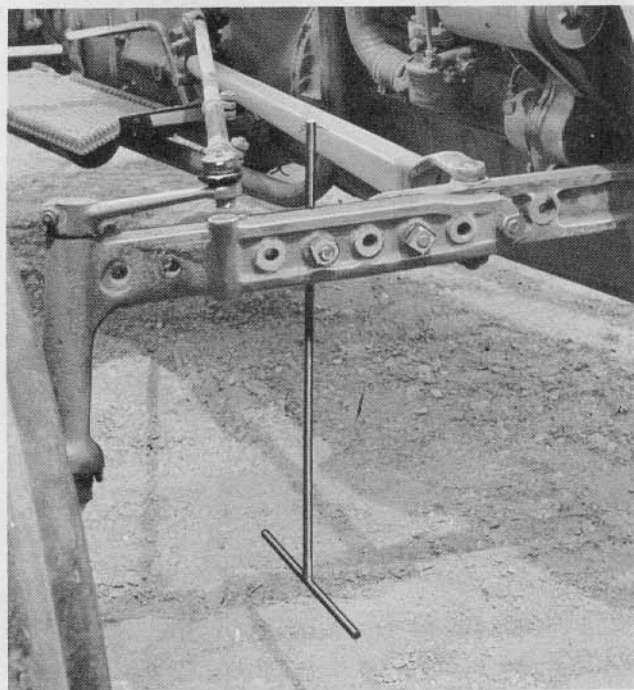


Figure 7

ADJUSTMENT OF THE RIGID SHANK CULTIVATOR

The ease of operation with the Ford Hydraulic Touch Control makes possible a very efficient job with little physical effort on the part of the operator.

BEFORE USING THE CULTIVATOR

First, remove the paint from the shovels and rolling fin with a good paint or varnish remover. Do not use abrasives, such as sand, emery dust or scouring powders.

Adjust the front and rear tractor wheels to correspond to the width of the rows being cultivated.

Adjust all shanks of corresponding position so that each of the shovels will cultivate at the desired depth.

Adjust the shanks to conform to the row spacing. They may be adjusted for two rows spaced from 36" to 42"; four rows spaced from 16" to 20"; two rows and three middles spaced 24" to 30"; and for seven feet general field cultivation.

SWEEP ADJUSTMENTS

All the sweeps of corresponding position on each side of the cultivator should operate at the same depth. Uneven depth adjustment will cause uneven cultivation, side draft and poor control of the cultivator.

To adjust the sweeps vertically, loosen bolts A, B, and C, shown in Figure 8, and move the shovel stem up or down as desired. The marks on the shovel shank will aid in making this adjustment. Be sure the marks are identical on all corresponding shanks.

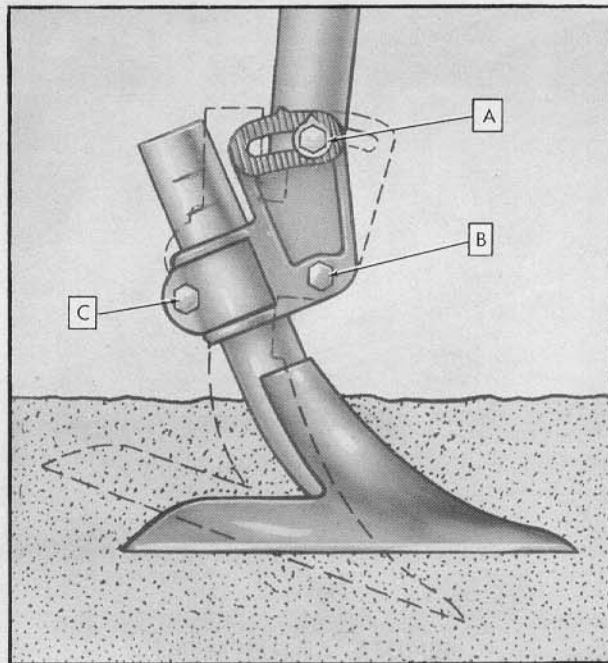


Figure 8

To adjust the sweep to throw dirt toward, or away from the row, loosen bolt C and turn shovel stem and shovel to the desired position. Be sure that the sweeps on each side of the rolling fin are adjusted to the same position, or the cultivator will have a tendency to pull sideways.

To adjust the downward pitch of the shovels, loosen bolts A and B and move the foot casting. Use the serrated washer—this keeps the foot casting in its set position.

Lateral adjustment of the sweeps to work close to the rows, or for different width of rows, can be made by moving the shanks to desired holes, spaced at one-inch intervals on the main frame assembly.

OPERATION OF THE RIGID SHANK CULTIVATOR

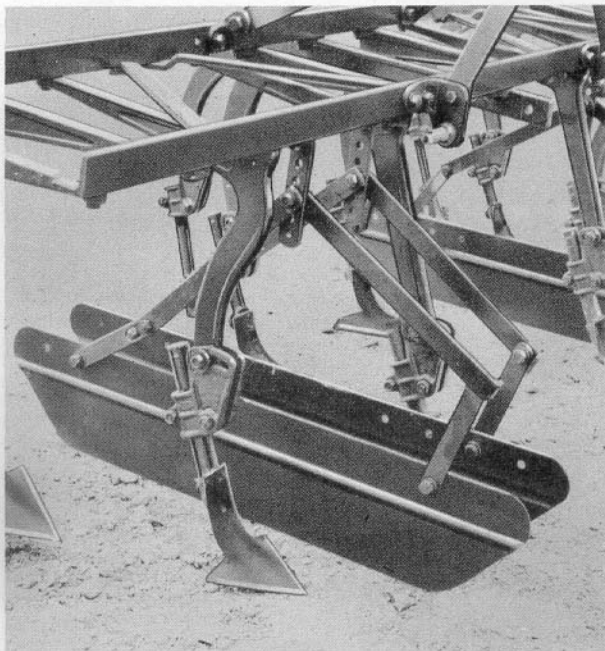


Figure 9

FENDER ADJUSTMENT

The cultivator fenders should be adjusted so that the young plants will not be covered by the dirt from the shovels. Yet some of the dirt should roll to the plant.

To adjust the fenders, move the toggle assembly as illustrated in Figure 9.

The fenders may be raised or lowered by moving the toggle assembly at A. Another

height adjustment can be made by moving the assembly to another slot on the fender bracket B.

Lateral adjustment of the fenders is made by using the one-inch holes in the cultivator frame.

ROLLING FIN

Since the rolling fin lines up the cultivator and prevents interference with crop row, it is important to obtain the proper fin setting.

Normally, the rolling fin should be set to ride 3" below the shovel points. However, in sandy or loose soils, or on hillsides, a setting of 1" to 2" deeper may give better results.

To adjust the depth of the fin: loosen the bolt which attaches the fin brackets to the main frame of the cultivator (Figure 5). Position the two struts in the desired holes on the fin bracket; slide the bracket to the desired position of depth and tighten all nuts securely.

STEERING POINTER

The steering pointer should be attached to the tractor front axle just above the right row, and centered between the two front sweeps (see Figure 7).

LUBRICATION

The Rigid Shank Cultivator requires absolutely no lubrication.

MAINTENANCE

1. Always keep shovels sharp.
2. Clean cultivator after each use and cover ground engaging surfaces with a good grade of rust preventive.
3. Store cultivator in a clean, dry place—on wood or cement floor, if possible.
4. Use touch-up paint as necessary to prevent rust and maintain appearance of implement.
5. Replace worn parts promptly, using genuine Dearborn Equipment Parts.
6. Keep all nuts tight.

SAFETY PRECAUTIONS

Most farm equipment accidents can be avoided by following these simple safety precautions:

1. Do not permit anyone but the operator to ride the tractor at any time.
2. Always lower the cultivator to the ground with Ford Hydraulic Touch Control when leaving the tractor. This will prevent injury should anyone tamper with the controls.
3. Operator should never get off the tractor while it is in motion.
4. Never attempt to make adjustments on tractor or equipment when tractor is in motion.
5. Always shut off engine when leaving tractor.