



**LIFT  
TYPE**

**SPRING SHANK FRONT  
END CULTIVATOR**



**ASSEMBLY and OPERATING**  
*Instructions*

**DEARBORN MOTORS CORPORATION — DETROIT 3, MICHIGAN**

# TABLE OF CONTENTS

	<i>Page</i>
Description of the Cultivator .....	1
Assembly of the Cultivator .....	2
Attaching Cultivator to the Tractor .....	3
Operating the Cultivator .....	4
Lubrication .....	5
Maintenance .....	5
Safety Precautions .....	5

## *Introduction*

The Dearborn Spring Shank Front End Cultivator is one item of the basic line of Dearborn Farm Equipment all of which is designed for use with the Ford Tractor. Each item of this equipment has been engineered to aid you in the performance of specific agricultural operations.

The Spring Shank Front End Cultivator is a most effective tool for the cultivation of row crops, and your Ford Tractor dealer will instruct you in its operation.

This manual contains information about the Spring Shank Cultivator, its assembly, operation, and care. Further information may be obtained from your Ford Tractor dealer, who carries a full line of *Ford Tractor and Dearborn Equipment Repair Parts*.

*Dearborn Motors Corporation reserves the right to make changes in design, materials, and/or specifications, without notice and without liability therefor.*

# THE SPRING SHANK FRONT END CULTIVATOR



Figure 1

The Dearborn Spring Shank Front End Cultivator is a flexible, front vision tool, designed for use with the Dearborn Spring Shank Rear Mounted Cultivator, that provides easy control of cultivation. It steers easily along crooked rows, works well on hillsides, and is highly adaptable to contour cultivation work. The equipment cultivates two rows of corn, soybeans, cotton, vegetables, peanuts, flowers, or other row crops, and fenders are provided for the protection of plants. Used in connection with your Dearborn Spring Shank Cultivator the Front End Cultivator is lift type equipment, easily handled from the seat of the Ford Tractor.

# ASSEMBLY OF THE FRONT END CULTIVATOR

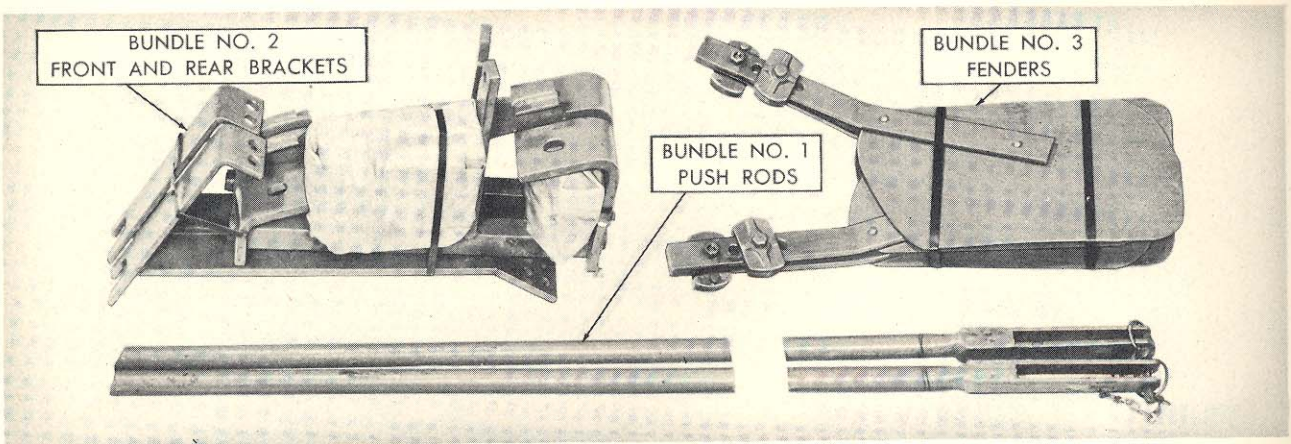


Figure 2

*NOTE: Assembly of the Dearborn Spring Shank Front End Cultivator is the responsibility of your Ford Tractor dealer. The equipment 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**

2 Push Rods.

## **BUNDLE NO. 2**

2 Front mounting brackets.

2 Rear mounting brackets.

Miscellaneous nuts and bolts.

## **BUNDLE NO. 3**

2 Right fenders, with arm blocks.

2 Left fenders, with arm blocks.

## **Assembly Procedure**

**Step 1.** Before attaching cultivator, adjust tractor wheels to correspond to width of rows being cultivated. Wheel tread should be as nearly as possible twice the row width.

**Step 2.** Cut bands and place parts in groups, according to bundles.

**Step 3.** Remove 3rd, 4th, 8th, and 9th spring rines from your Spring Shank (rear) cultivator.

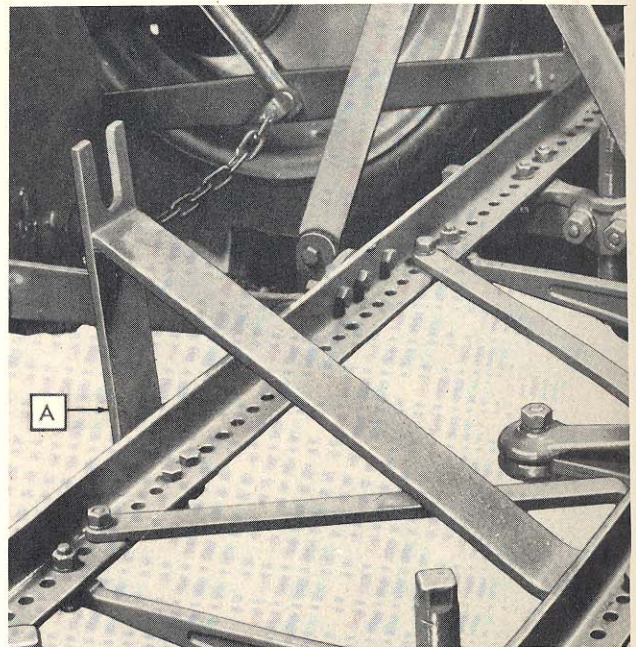


Figure 3

**Step 4.** Attach rear push rod brackets (A) to frame of rear cultivator, as shown in Figure 3.

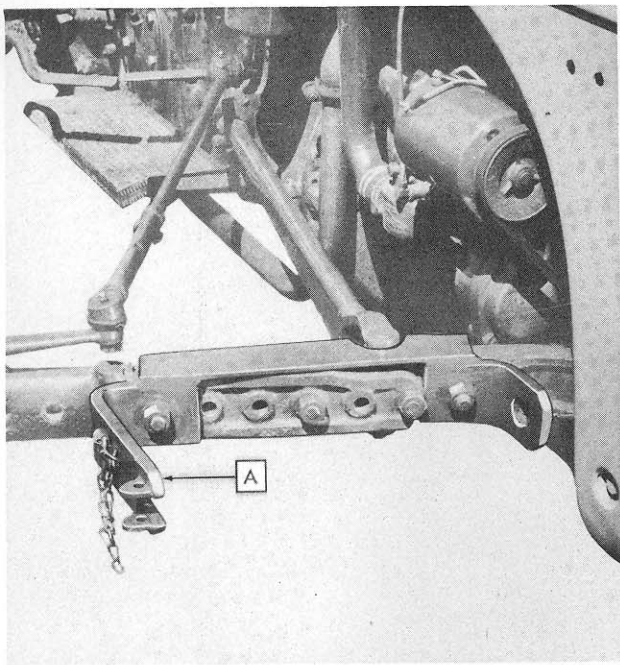


Figure 4

**Step 5.** Attach front mounting brackets (A) to axle of tractor, using 3rd and 9th holes in axle, as shown in Figure 4.

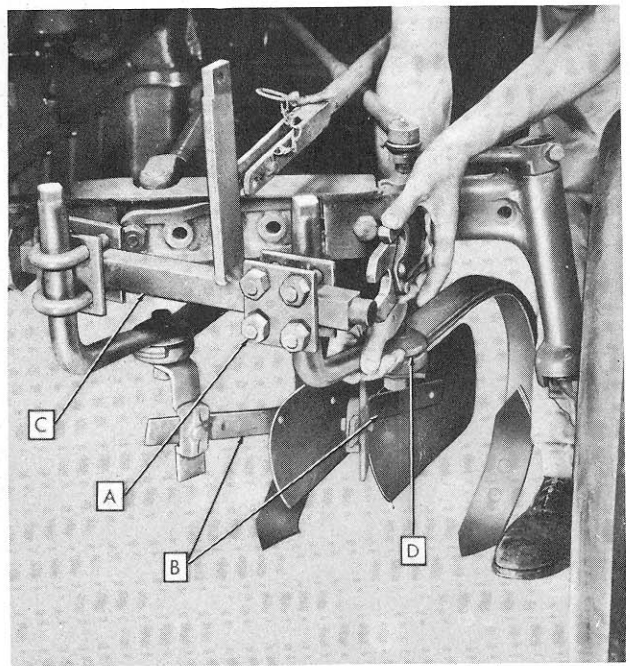


Figure 5

**Step 6.** Assemble right and left front cultivator units as shown in Figure 5, leaving four bolts (A) holding beams on square cross shaft, and fender straps (B) loose, for adjustment after mounting on tractor.

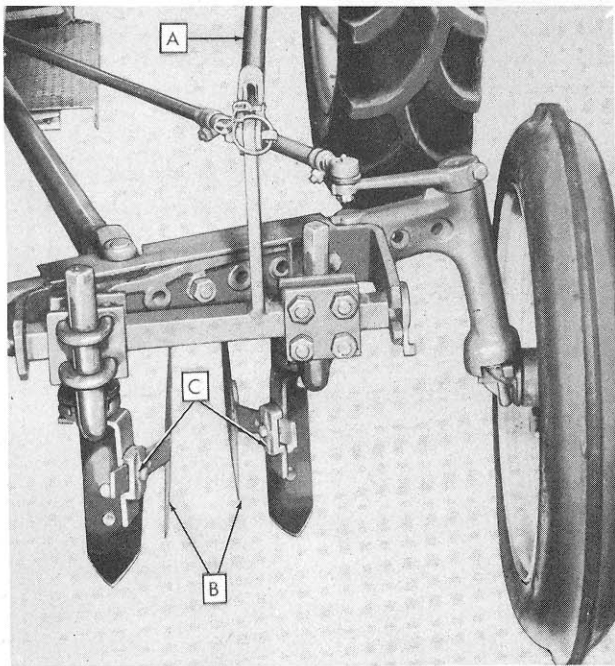


Figure 6

**Step 7.** Attach cultivator assemblies to front mounting brackets as shown in Figure 6. Then attach front push rod (A).

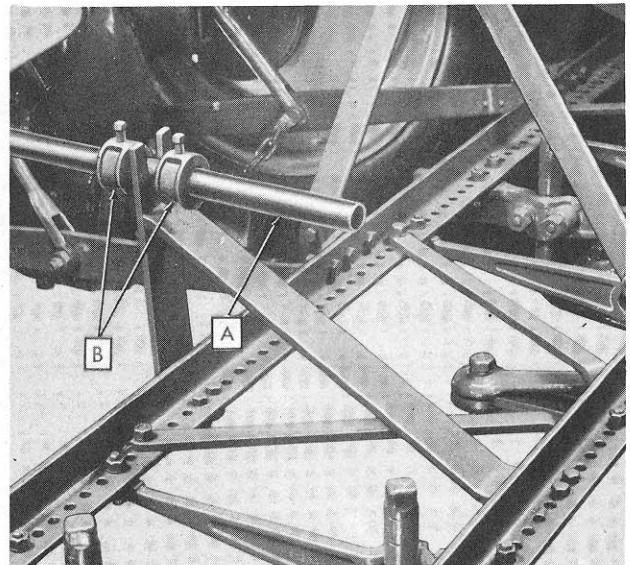


Figure 7

**Step 8.** Position push rod (A) in rear bracket, as shown in Figure 7, with collars (B) on either side of bracket. Tighten collars on push rods temporarily, subject to adjustment in the field.

# OPERATING THE FRONT END CULTIVATOR

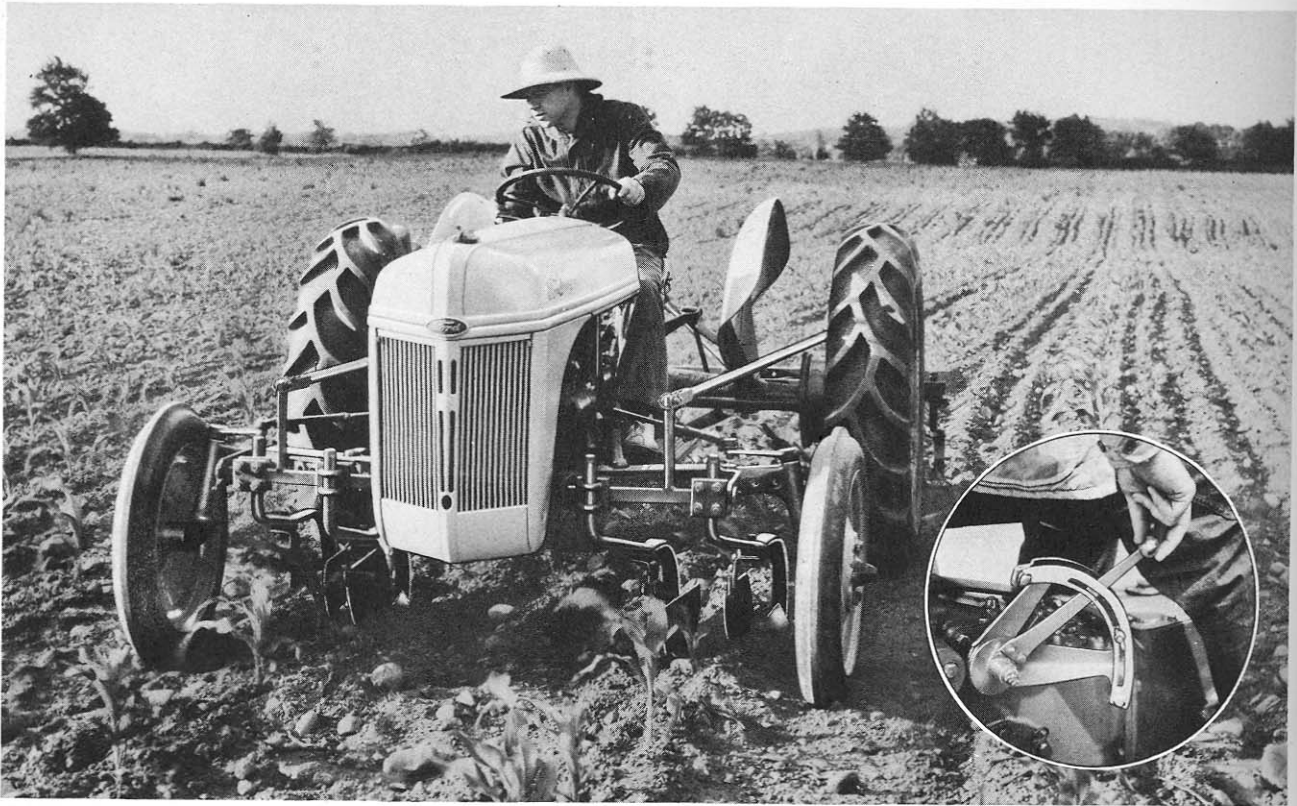


Figure 8

The Dearborn Spring Shank Front End Cultivator is raised and lowered by two push rods connected to the rear cultivator with which it is used. The rear cultivator is actuated by the Ford Hydraulic Touch Control on the tractor, as shown in the inset above. With the Ford Hydraulic Touch Control you can lower the front and rear cultivator units to the proper depth. Shovels and shields are fully adjustable.

## DEPTH ADJUSTMENT

Adjustment for soil penetration by the Spring Shank Front End Cultivator is obtained by moving the collars (B) in Figure 7 on the push rods on each side of the rear mounting bracket. After this adjustment has been made, the front tractor wheels act as depth gauges, following the contour of the soil.

## SHOVEL ADJUSTMENT

The distance between shovels may be varied by moving the brackets on the square cross shaft (C) in Figure 5 as desired, or by chang-

ing the angle of the spring shanks where they are attached to the stem cranks (D) in Figure 5.

## FENDER ADJUSTMENT

Fenders (B) in Figure 6, provided for the protection of plants, may be varied in width by adjustment at (D) in Figure 5. They are easily positioned at the desired distance from the soil by adjustment of the fender mounting arms (C) in Figure 6.

*NOTE: After adjustments are made, be sure to tighten all nuts securely.*

## LUBRICATION

The Dearborn Spring Shank Front End Cultivator requires no lubrication.

## MAINTENANCE

1. Clean the Cultivator after each use, and cover the ground engaging surfaces with a good grade of rust preventive.
2. Store Cultivator in a clean, dry place—on wood or cement floor, if possible.
3. Replace worn parts promptly, using genuine Dearborn Equipment Repair Parts.
4. Keep cutting edge of shovels sharp at all times.
5. 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.
2. Always lower equipment to the ground with Ford Hydraulic Touch Control before leaving the tractor. This prevents injury should anyone tamper with the controls.
3. Operator should never leave the seat of tractor while it is in motion.
4. Never attempt to make adjustments on tractor or equipment while the tractor is in motion.
5. Always shut off engine before leaving tractor.

# DEARBORN MOTORS CORPORATION

## EQUIPMENT WARRANTY

DEARBORN MOTORS CORPORATION warrants all parts (other than tires) of equipment bearing the trade mark "Dearborn Equipment" to the original purchaser thereof at retail, for a period of six (6) months from the date of delivery thereof to the original purchaser at retail, to be free from defects in workmanship and material under normal use and service. The obligation of Dearborn Motors Corporation under this warranty shall be limited to shipment, without charge to the original purchaser at retail, of the part or parts of such Dearborn Equipment intended to replace the part or parts acknowledged by Dearborn Motors Corporation to be defective in workmanship or material. This warranty is in lieu of all other warranties, expressed or implied, and of all obligations or liabilities on the part of Dearborn Motors Corporation, and it neither assumes nor authorizes any person to assume for it, any other obligation or liability in connection with workmanship or material of equipment bearing the trade mark "Dearborn Equipment" or any part thereof. This warranty shall not apply to any Dearborn Equipment, or any part thereof, which has been damaged in any accident, or by fire, flood, or Act of God, or abused or misused, or which has been altered elsewhere than at the place of manufacture, or in which the original purchaser thereof at retail, has used or allowed to be used, parts not made or supplied by Dearborn Motors Corporation. Dearborn Motors Corporation reserves the right at any time to make changes in the design, materials and/or specifications of equipment bearing the trade mark "Dearborn Equipment" and/or accessories therefor, without thereby becoming liable to make similar changes in equipment bearing the trade mark "Dearborn Equipment" and/or accessories therefor, previously manufactured.

DEARBORN MOTORS CORPORATION

DETROIT 3, MICHIGAN

[www.ntractorclub.com](http://www.ntractorclub.com)