ASSEMBLY AND OPERATING INSTRUCTIONS

The Dearborn Adjusto-Flex Tandem Disc Harrow is designed for maximum flexibility and ease of adjustment. In addition to these features, the harrow retains the sturdiness and fine cutting ability of the rigid frame design.

The unique design of the harrow keeps it from "walking" to the right or left, while flexibility permits individual gangs to ride over rocks and other obstructions. This helps cushion the severe shock and strain of hard field usage.

The disc gangs are easily adjustable to six angle settings to give the desired degree of pulverization for the particular soil being worked. This feature is especially valuable when soil conditions make penetration difficult.

By means of an easily operated wheel control, most of the weight of the harrow can be transferred to either the front or rear gangs. Then, by simply moving levers, the gangs can be set to provide a good leveling job. The wheel control adjustment is also very effective in breaking down ridges or filling shallow ditches with a minimum of travel.

The Dearborn Adjusto-Flex Disc Harrow is quickly and easily attached to the Ford Tractor three point linkage and depth is controlled by the Ford Tractor Hydraulic System.

This manual contains information on the assembly, lubrication and general operation of your Adjusto-Flex Disc Harrow. Read it carefully, study the illustrations and keep it available for ready reference.
ADJUSTO-FLEX TANDEM DISC HARROW

SHIPPING INFORMATION

The 6½ and 7½ foot Dearborn Adjusto-Flex Tandem Disc Harrows are shipped in seven bundles as shown in Figure 1. Check the shipment against the following list and Figure 1 to be sure all parts are received.

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<th>Model No.</th>
<th>Key</th>
<th>Description</th>
<th>Bundle No.</th>
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<tr>
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<td>A</td>
<td>6½' Gang—16&quot; Discs</td>
<td>112956</td>
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<tr>
<td></td>
<td>B</td>
<td>6½' Gang—16&quot; Discs</td>
<td>112957</td>
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<tr>
<td></td>
<td>C</td>
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<td>6½' Gang—16&quot; Discs</td>
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<tr>
<td></td>
<td>C</td>
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<td>7½' Gang—16&quot; Discs</td>
<td>112964</td>
</tr>
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</table>
|           | D   | 7½' Gang—16" Discs   | 112965     

Figure 1
Adjusto-Flex Tandem Disc Harrow Bundled for Shipment

Scraper Assemblies (see cover illustration) are extra equipment and if purchased, comprise an additional bundle for all harrows. Model numbers of the Scraper Assemblies are as follows:

- Model No. 11-149—6½' Scraper Set (Series "C")
- Model No. 11-150—7½' Scraper Set (Series "G")

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ADJUSTO-FLEX TANDEM DISC HARROW

Figure 2
Side, Front and Rear Frame Members Installed

ASSEMBLY PROCEDURE

NOTE: Assembly of the Adjusto-Flex Disc Harrow is the responsibility of the Ford Tractor Dealer. The implement should be delivered completely assembled. The following instructions are provided in case of need.

1. Cut and remove the wires from the bundles and lay out all the parts to facilitate assembly.

2. Assemble the frame members as follows:
   a. Position the four disc gangs in their approximate working position as shown in Figure 1. The bumper washers on the front gangs should be together and the rear gangs placed approximately 16 inches apart.

   NOTE: The proper location of each gang is marked on the end disc near the bumper washer.

   b. Hold the gang frames in an upright position and insert the outer right frame member (4), Figure 2, through the front and rear gang retainers. Install the outer left frame member in the same manner. The frame members should be assembled with the wear angles (See 5, Figure 2) on top and toward the center of the harrow as shown.

   c. Attach both outer frame members to the front and rear gangs with the ½" x 1¾" bolts, ¾" x 7/8" spacers, 1¾" x 3/8" flatwashers and the locknuts provided. See (3) and (6), Figure 2.

   NOTE: Do not tighten any bolts in the main frame members securely at this time.

   d. Attach the front frame member (1), Figure 2, to the underside of the outer frame members with two ½" x 1¾" bolts and locknuts (2).

   e. Attach the rear frame member (7), Figure 2, to the underside of the outer frame members with two ½" x 1¾" bolts and locknuts (8).

   f. Attach the two center frame members (See 6, Figure 3) to the harrow with the four ½" x 1¾" bolts and locknuts (7).

   g. Position one short frame brace (2), Figure 3, and one long brace (4) on each side of the harrow frame as shown. Attach both braces to the outer frame with 7/16" x 1¾" bolts and locknuts (3). Secure the short braces (2) to the front member (1) and the long braces to the rear frame member (5) with the 7/16" x 1" bolts and locknuts provided.

   NOTE: Tighten all bolts and locknuts on the main frame securely at this time.
ADJUSTO-FLEX TANDEM DISC HARROW

3. Position the eight gang retainers (See 1, Figure 4) over the inner frame members and secure with \( \frac{1}{16} \) " x \( 1\frac{3}{4} \) " bolts and locknuts as shown.

4. Install the gang adjusting levers on the harrow as follows:
   a. Position the adjusting lever bracket (4), Figure 4, on the front frame member so that the four pin holes are aligned with the holes in the frame. Secure with two \( \frac{1}{16} \) " x \( 1\frac{3}{4} \) " bolts and locknuts (6).
   b. Insert the two short adjusting levers (3), Figure 4, through the inner slots in the bracket (4) with the handles turned \( DOW N \). Attach the levers to the front gang assemblies with the two \( \frac{1}{16} \) " x \( 1\frac{3}{4} \) " bolts, shouldered spacers and locknuts provided.
   c. Insert the two long adjusting levers (2), Figure 4, through the outer slots in the bracket (4) with the handles turned \( U P \). Attach the levers to the rear gangs with the \( \frac{1}{16} \) " x \( 1\frac{3}{4} \) " bolts, shouldered spacers and locknuts as shown.
   d. Position the front and rear gangs as desired and insert the four adjusting lock pins (5), Figure 4, through the levers as shown.

5. Assemble the "A" frame and adjusting shaft as follows:
   a. Position the "A" frame (7), Figure 5, between the mounting brackets (9) and insert the two link pins (10). Install the \( \frac{3}{8} \) " x \( 1\frac{3}{4} \) " bushings on the link pins and secure with the flatwashers and locknuts (8) provided.
   b. Remove the adjusting shaft yoke (5), Figure 5, from its shipping position on the shaft (1). Insert the shaft through the hole in the top of the "A" frame and position the adjusting wheel (2) on the shaft as shown. Secure the wheel to the shaft with \( \frac{1}{16} \) " x \( 1\frac{3}{4} \) " Groov pin (3).
   c. Turn the adjusting yoke (5), Figure 5, on the shaft as shown and insert the \( \frac{1}{4} \) " x \( 1\frac{3}{4} \) " Groov pin through the threaded end of the shaft (6).
   d. Attach the yoke to the rear frame member with the \( \frac{3}{8} \) " x \( 2\frac{1}{2} \) " bolt and locknut (4), Figure 5. Do not tighten securely, but allow approximately \( \frac{1}{16} \) " play in the adjusting yoke.

OPERATION

The Dearborn Adjusto-Flex Tandem Disc Harrow is a flexible, easily adjusted implement, designed to give satisfactory performance in all types of soil and in a wide variety of cover conditions.

The harrow is ideally suited for operations such as seed bed preparation, turning in cover crops and cutting up trash. With its wide range of adjustment, most surface trash can be easily and thoroughly
mulched and better penetration can be obtained. Cut-out discs on front gangs are available for use in extremely trashy conditions.

The "lift" feature of the harrow provides easier turning at the end of the field, permits crossing grass waterways without damaging the sod and protects the cutting edge of the discs when transporting the harrow to and from the field.

LUBRICATION
There are sixteen grease fittings on the Dearborn Adjusto-Flex Disc Harrow. Two of these fittings are located on each of the disc gang bearings. Lubricate the bearings after assembly and following every four hours of operation thereafter. Use a good grade of pressure gun grease and wipe the fittings clean to avoid forcing dirt into the bearings.

The adjusting shaft should be lubricated only as necessary to prevent rusting of the threads.

ADJUSTMENTS
Gang angle: There are six angle settings for each gang, ranging from 10 to 20 degrees. (See Figure 5) The gangs can be adjusted from the tractor seat by raising the implement to transport position and removing the lock pins (5), Figure 4. Use the levers to set the gangs at the desired angle and reinstall the lock pins.

Pitch Control: The front or rear gangs may be raised or lowered by means of a pitch control wheel (2), Figure 5. This wheel controls leveling by providing six inches of adjustment, whereby the implement may be tilted either up or down from the level cutting position.

Scrapers: The scraper assemblies are easily adjusted by loosening the two bolts and locknuts which hold them to the harrow frame. Set the points of the scrapers approximately 1/2 inch from the disc blades and tighten the nuts on the bolts securely.

MAINTENANCE
1. Keep the disc blades sharp at all times.
2. Keep the bearings well lubricated.
3. Use Dearborn Sprayon Touch-up Enamel to prevent rust and maintain the appearance of the harrow.
4. Store the harrow in a dry place between operating seasons and coat non-painted surfaces with a good grade of rust preventive.
5. Your Ford Tractor Dealer carries a complete stock of genuine Ford Tractor and Dearborn Equipment repair parts. You have purchased a GOOD harrow. KEEP it that way by insisting on genuine Dearborn Equipment repair parts.
Here are some of the implements in the Dearborn Equipment Line:

- Moldboard Plows
- Disc Plows
- Tillers
- One-Way Plows
- Middlebusters
- Tandem Disc Harrows
- Spring Tooth Harrows
- Bush & Bog Harrows
- Subsoilers
- Grain Drills
- Lime & Fertilizer Spreaders
- Spring Shank Cultivators
- Rigid Shank Cultivators
- Field Cultivators
- Rotary Hoes
- Buster Planters
- Corn Planters
- Corn Pickers
- Corn Harvesters
- Cotton Harvesters
- Front & Rear Loaders
- Combines
- Mowers
- Cranes
- Sweep Rakes
- Side Delivery Rakes
- Hay Balers
- Forage Harvesters
- Scoops
- Manure Spreaders
- Blades
- Scrapers
- Wagons
- Post Hole Diggers
- Disc Ridders
- Snow Plows

For Further Information...

SEE YOUR LOCAL FORD TRACTOR DEALER

EQUIPMENT WARRANTY

Ford Motor Company warrants all parts (other than pneumatic tires, inner tubes and batteries) of equipment bearing the trade-mark "Dearborn" to the original purchaser from Company, 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 Company under this warranty shall be limited to shipment, without charge, to the original purchaser from Company, of the part or parts acknowledged by Company 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 Company, 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" 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 Company. Company reserves the right at any time to make changes in the design, materials and/or specifications of equipment bearing the trade-mark "Dearborn" and/or accessories therefor, without thereby becoming liable to make similar changes in equipment bearing the trade-mark "Dearborn" and/or accessories therefor, previously manufactured.

TRACTOR AND IMPLEMENT DIVISION
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