



**LIFT  
TYPE**

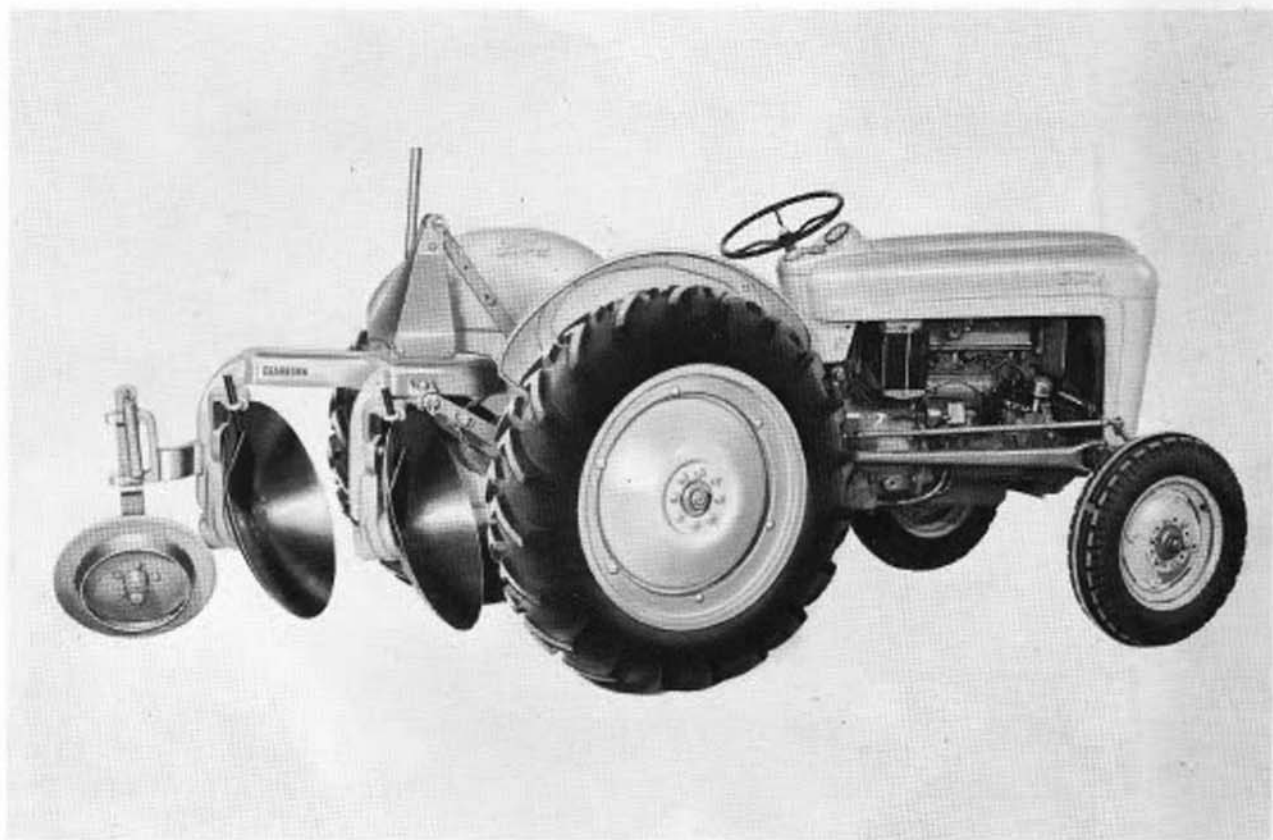
DEARBORN

# DISC PLOW

MODELS 10-203 AND 10-204



## ASSEMBLY AND OPERATING INSTRUCTIONS



The Dearborn Disc Plow is a lift type implement and is available in two models. Model 10-203 (shown above) is equipped with standard hoe type scrapers and Model 10-204 is equipped with fully adjustable moldboard scrapers. (D.M.C. Part No. 105677)

The sturdy construction of the Dearborn Disc Plow assures long life and economical operation. The discs, mounted on a heavy high carbon cast steel frame, are equipped with tapered roller bearings to assure smooth operation. The 26-inch discs are made of electrically heat treated high carbon steel to withstand severe shock and abrasive action.

The Disc Plow is held in alignment by a furrow

wheel which is equipped with a coil spring mounting, permitting the plow to ride over obstructions and to automatically adjust itself for proper height. The furrow wheel is also equipped with tapered roller bearings.

A new weight block and an adjustable cross shaft are provided to increase the efficiency of the Dearborn Disc Plow.

This manual contains information on the assembly, lubrication and general operation of the Dearborn Disc Plow. Read it carefully and keep it available for ready reference.

**DEARBORN MOTORS CORPORATION**

*National Marketing Organization for the Ford Tractor and Dearborn Farm Equipment*

**BIRMINGHAM, MICHIGAN**

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

# DEARBORN DISC PLOW

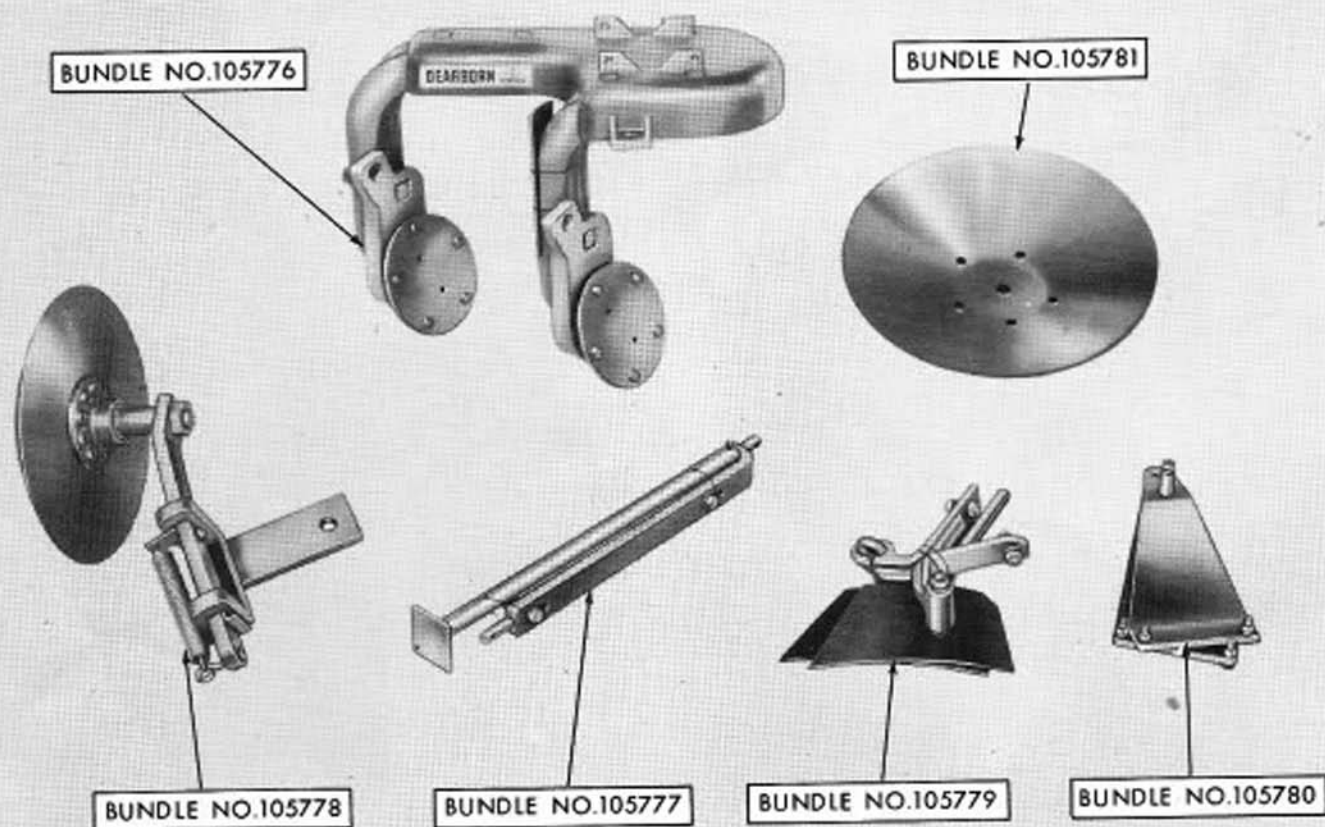


Figure 1

The Dearborn Disc Plow Bundled for Shipment

## SHIPPING INFORMATION

The Dearborn Disc Plow, Models 10-203 and 10-204, is shipped in six bundles as shown in Figure 1. Check the shipment against the following list and Figure 1 to be sure all parts are received.

D.M.C. Bundle Number	Description
105776	Main plow frame with Assembly and Operating Instructions attached.
105781	Two disc blades.
105778	Tail wheel assembly.
105777	Plow stand and cross shaft wired together.
105779	Two scrapers and scraper brackets wired together.
105780	"A" frame disassembled and bolted together.

## ASSEMBLY PROCEDURE

NOTE: Assembly of the Dearborn Disc Plow is the responsibility of your Dearborn Farm Equipment

dealer. This implement should be delivered completely assembled, as outlined in the following instructions.

1. Remove the wires from the bundles and lay out all the parts shown in Figure 1 to facilitate assembly.
2. Block the plow frame up with a jack or other suitable support as shown in Figure 2. The support should be approximately 18 inches in height.
3. Attach the "A" frame to the main plow frame as follows:
  - a. Position the "A" frame members (3) and (5), Figure 2 on the main plow frame with the angled side of the members toward the rear of the plow. Attach these members to the plow frame loosely with the four bolts, lockwashers and nuts shown at (6).
  - b. Secure the top of the "A" frame with the bolt (2), Figure 2, spacer (4), and the lockwasher and nut (1) provided.

# DEARBORN DISC PLOW

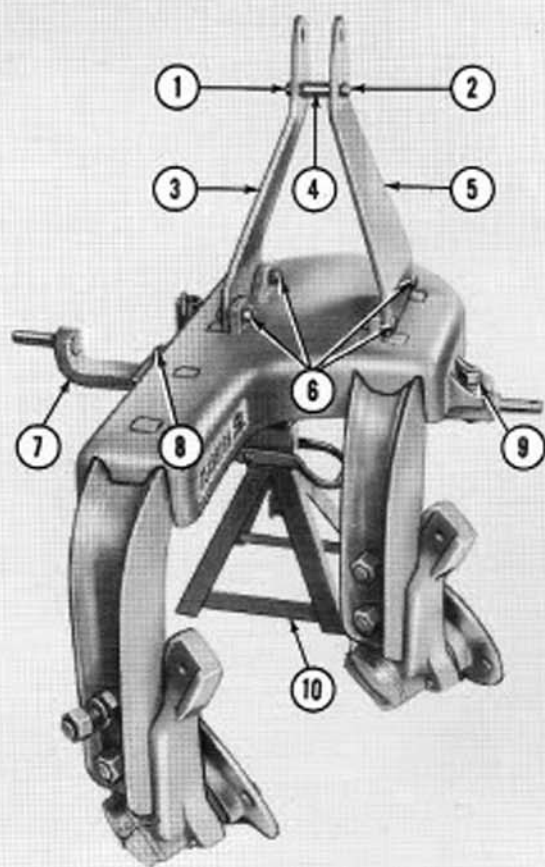


Figure 2

## "A" Frame and Cross Shaft Attached

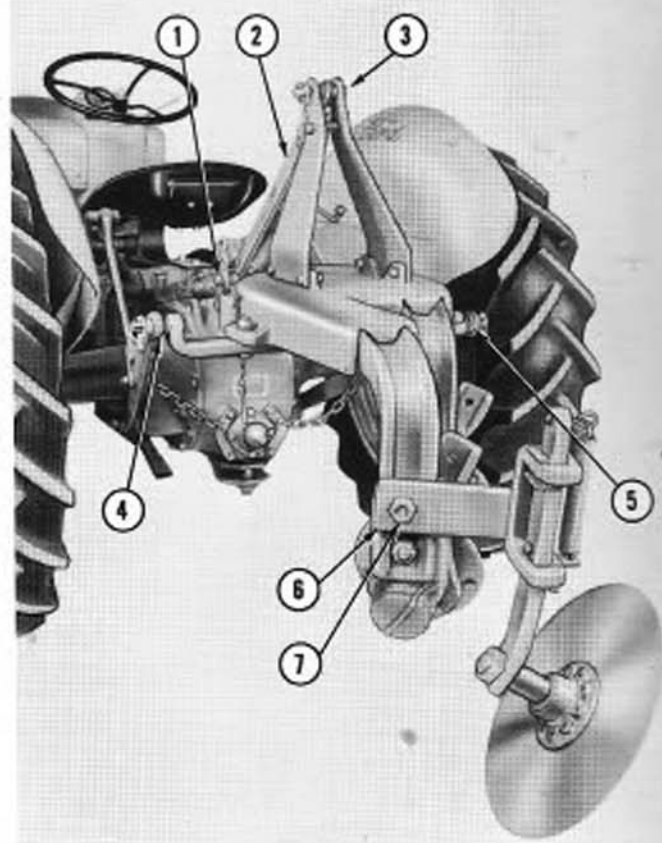


Figure 3

## Tail Wheel Assembly Attached

4. Attach the cross shaft (7), Figure 2, to the plow frame with the bolts, lockwashers and nuts (8) and (9) as shown. Under normal conditions, install the bolts through the right hand set of holes in the cross shaft. (See adjustment.)
5. Attach the tail wheel assembly to the plow frame as follows:
  - a. Back the tractor up to the plow frame and attach the lower links to the cross shaft as shown at (4) and (5), Figure 3.
  - b. Attach the tractor top link (2), Figure 3, in the lower hole (1) in the tractor three hole rocker. The top link should be adjusted to its shortest length.
  - c. Remove the jack (10), Figure 2.
  - d. Raise the plow frame slowly with the Ford Tractor Hydraulic Touch Control lever until the top link is aligned with the hole (3), Figure 3, in the "A" frame. Secure with the pin and lynch pin provided and continue to raise the plow frame to transport position.

- e. Attach the tail wheel support bracket (6), Figure 3, to the bolt in the long beam and secure with the lockwasher and nut (7).
6. Attach the disc blades and scrapers to the plow as follows:
  - a. Position the scraper mounting brackets (3), Figure 4, on the top rear of the disc bearing boxes and secure with bolts, lockwashers and nuts as shown at (4).
  - b. Remove the five bolts (5), Figure 4, from the holes in each disc mounting spindle (8). **NOTE: These bolts were placed in the spindles in reverse position to prevent damage in shipping.**
  - c. Position a disc (6), Figure 4, (discs are interchangeable) on each mounting spindle (8) and insert the five plow bolts (7) so that the flat heads fit the contour of the disc as shown.
  - d. Tighten the nuts on the bolts (7), Figure 4, until the discs are securely attached to each mounting spindle.

# DEARBORN DISC PLOW

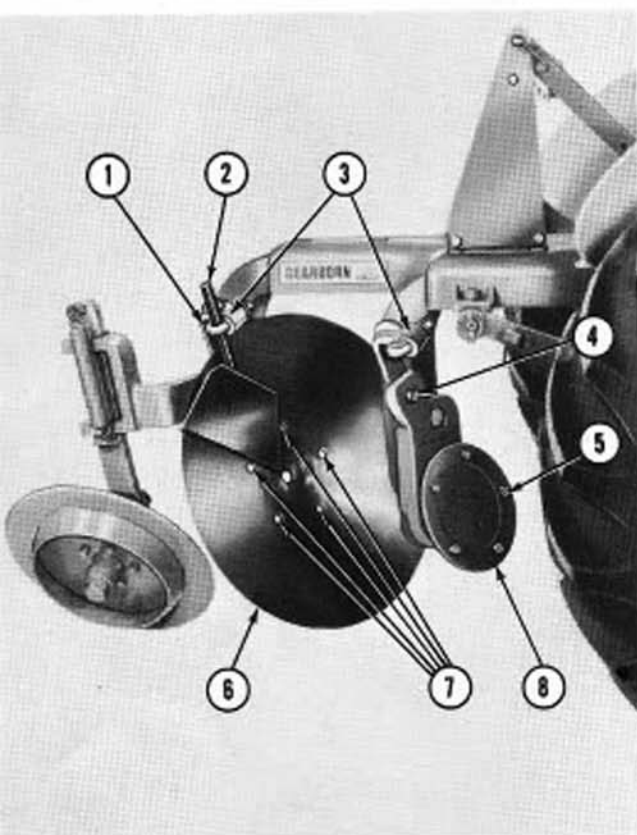


Figure 4  
Disc and Scraper Attached

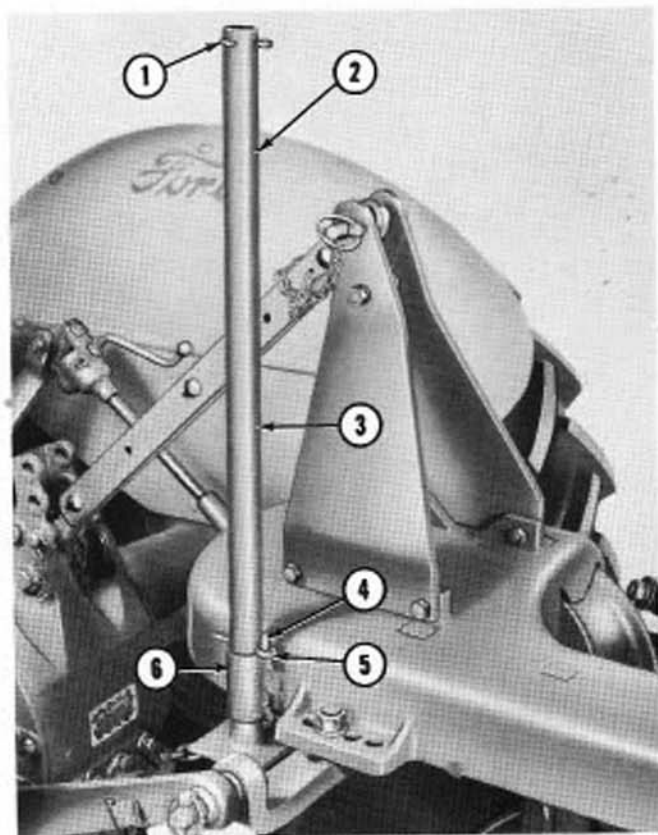


Figure 5  
Plow Stand Attached

- e. Place the scraper stem (2), Figure 4, through the eye bolt (1). Adjust the scraper until the point is approximately  $\frac{1}{2}$ " from the center of the disc with the blade as close as possible to the disc face, then tighten the nut on the eye bolt (1) securely.
- f. Attach the other scraper in the same manner and tighten securely.
7. Attach the plow support stand (3), Figure 5, to the plow as follows:
  - a. Remove the cotter pin (1), Figure 5, from the top hole in the support stand (3).
  - b. Insert the stand through the bottom of the bracket (6), Figure 5, on the left side of the weight block, and replace the cotter pin (1) as shown.
  - c. For transport purposes, raise the support stand (3), Figure 5, until the bottom hole is above the bracket (6). Secure the stand by inserting the cotter pin (5) through the stand and placing it over the pin (4) as shown.
  - d. When using the stand to support the plow, remove the cotter pin (5), Figure 5, and

lower the stand until the hole (2) is below the bracket (6). Then insert the cotter pin (5) in the hole (2) and detach the plow from the tractor.

**CAUTION:** The plow stand must always be raised when the plow is in operation.

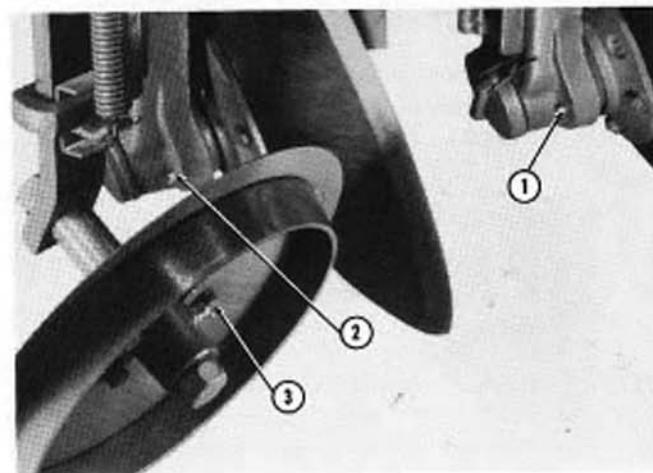


Figure 6  
Location of Lubrication Fittings

# DEARBORN DISC PLOW

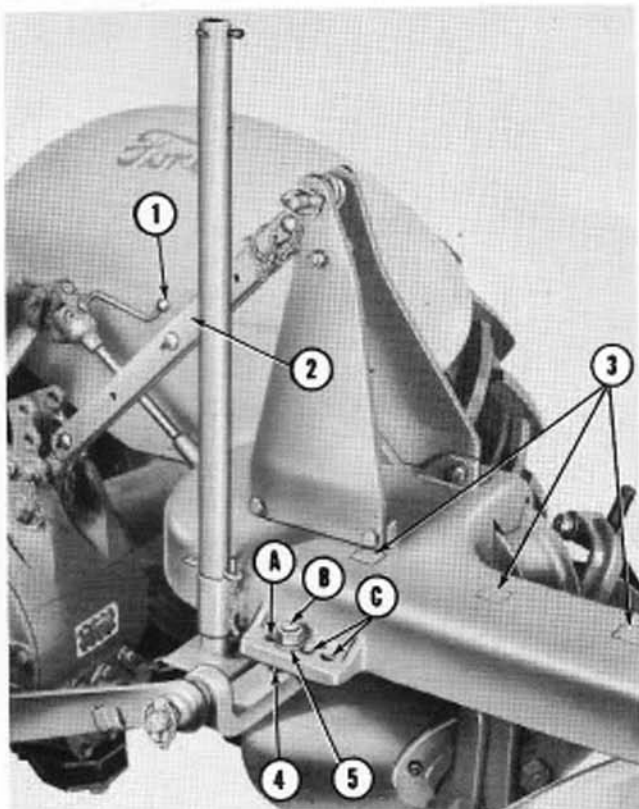


Figure 7

Adjusting the Dearborn Disc Plow

## TRACTOR WHEEL SPACING

Before attaching the Dearborn Disc Plow to the Ford Tractor, the right front tractor wheel should be moved out to 28" from the center of the tractor. The tractor rear wheels should be spaced at 52", as shipped from the factory.

## LUBRICATION

Use a standard grease gun to lubricate the grease fittings shown in Figure 6: (1) hub of front disc, (2) hub of rear disc, (3) hub of furrow wheel. Wipe the fittings clean and force enough grease into the bearings to carry out dirt and grit and to seal the bearings from outside dirt and dust.

## ADJUSTMENTS

**Leveling the Plow:** The plow should be leveled after making the first cut in a new plowing operation to allow for the fact that the tractor and plow are tilted because the tractor right wheels travel in the furrow. This adjustment is made by turning the tractor leveling crank (1), Figure 7, until the plow is level when the right tractor wheels are in the furrow.

**Top Link:** Under normal, heavy soil conditions, the tractor top link (2), Figure 7, should be adjusted to its shortest position (25"). Under certain soil condi-



Figure 8

Fully Adjustable Moldboard Type Scrapers  
(Model 10-204 Disc Plow)

tions, however, it may be necessary to increase the pressure on the tail wheel so that the plow will follow the tractor in the proper operating position. When these conditions are encountered, the tractor top link should be lengthened and the leveling crank (1) should be adjusted until the desired results are obtained.

**Adjusting the Long Beam:** Under excessively trashy conditions, the long, rear beam may be moved rearward to increase the distance between the front and rear discs. To do this, remove the three bolts (3), Figure 7, which hold the beam to the main frame and move the beam out until the extra set of holes are properly aligned. Replace the bolts (3), lockwashers and nuts and tighten securely.

**NOTE:** When this adjustment is made, it may be necessary to change the cross shaft adjustment as described below.

**Cross Shaft Adjustment:** The cross shaft can be adjusted laterally by changing the position of the bolts which hold it to the main frame. The width of cut on the front disc will be 9" to 10" when the right set of holes (5), Figure 7, are used, and approximately 12" when the left holes (4) are used.

To increase the width of cut on the rear disc to conform to the cut of the front disc, a four hole

# DEARBORN DISC PLOW

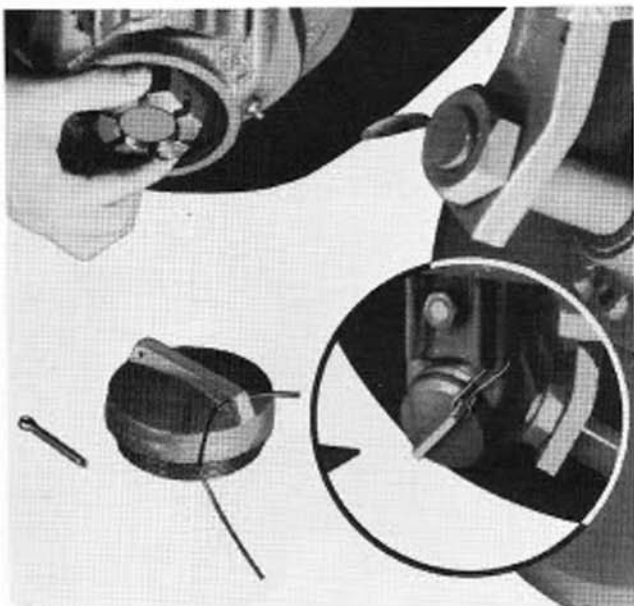


Figure 9  
Adjusting the Disc Hub Bearing

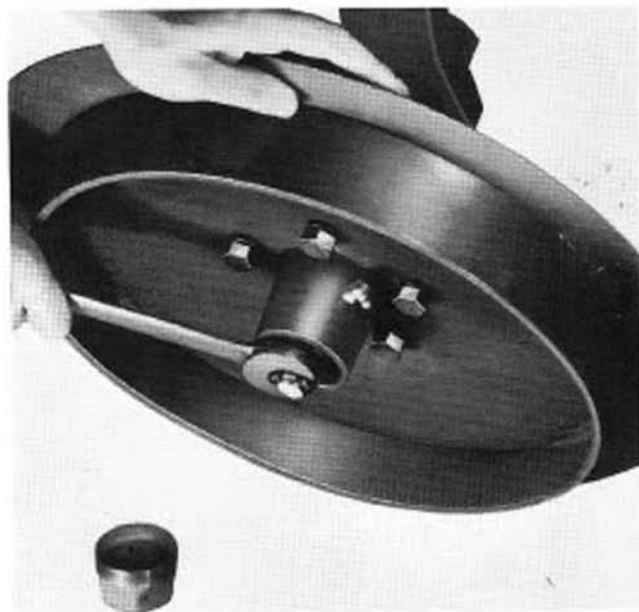


Figure 10  
Adjusting the Furrow Wheel Bearing

angle adjustment is provided on the left side of the plow frame. Use the front hole (A), Figure 7, for a 9" cut, the second hole (B) for a 10" cut, and the third or fourth hole (C) for a 12" cut.

**Scraper Adjustment:** The hoe type scrapers can be adjusted to suit the particular soil and operating conditions encountered. Loosen the nut on the eye bolt and raise or lower the scraper until the proper setting is obtained.

The fully adjustable moldboard type scrapers (Part No. 105677 on the Model 10-204 plow) shown in Figure 8, are adjusted by loosening the nut (1) on the eye bolt and raising, lowering, or changing the pitch of the scrapers (3) as desired. The entire scraper

assembly may also be moved on the scraper bracket (4) by loosening the set screw (2). Set the scraper as close as possible to the disc face and tighten the set screw securely.

**Bearing Adjustments:** The tapered bearings in the disc hub should be checked occasionally and adjusted if necessary. Remove the lock wire, dust cap, and cotter pin, as shown in Figure 9. Turn the castellated nut until reasonably tight, then back it off 1/16 turn. Secure the nut with the cotter pin. Replace and lock-wire the dust cap as shown in the insert, Figure 9. The furrow wheel bearing adjustment is made in the same manner. See Figure 10.

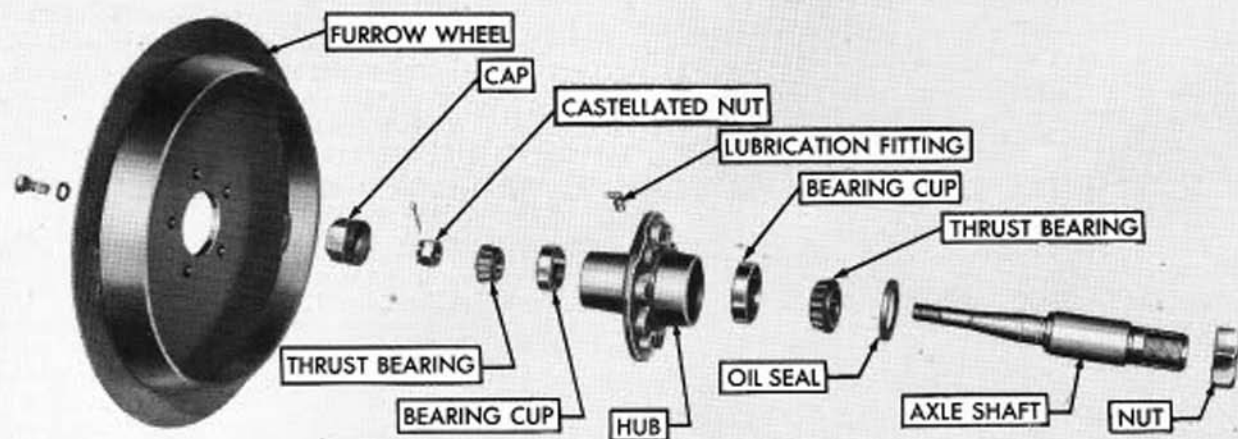


Figure 11  
Furrow Wheel Bearing Assembly

# DEARBORN DISC PLOW

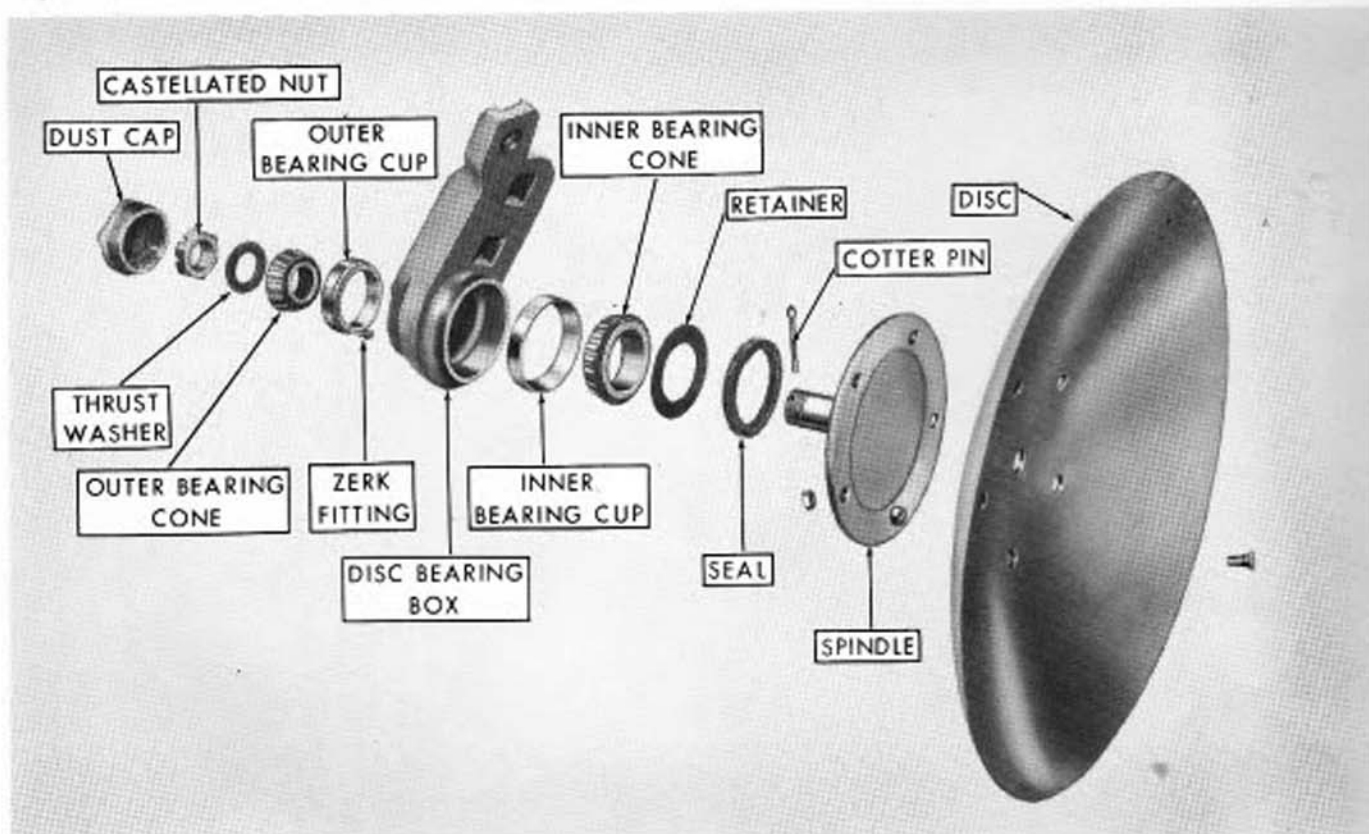


Figure 12  
Disc Hub Bearing Assembly

## SAFETY

1. Do not permit anyone but the operator to ride on the tractor at any time.
2. Do not permit anyone to ride on the implement.
3. Always lower the disc plow to the ground when not in use.
4. The operator should never leave the tractor seat while the tractor is in motion.
5. Always shut off the engine when leaving the tractor.
6. Keep the tractor keys where they are not available to children.

*Here are some of the implements in the Dearborn Farm Equipment Line:*

MOLDBOARD PLOWS

DISC PLOWS

TILLERS

TWO-WAY PLOWS

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

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 RIDGERS

SNOW PLOWS

*For Further Information . . .*

# SEE YOUR LOCAL FORD TRACTOR DEALER

## DEARBORN MOTORS CORPORATION EQUIPMENT WARRANTY

DEARBORN MOTORS CORPORATION warrants all parts (other than pneumatic tires, inner tubes and batteries) of equipment bearing the trade-mark "Dearborn" 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" 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" 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.

**DEARBORN MOTORS CORPORATION**  
*National Marketing Organization for the Ford Tractor and Dearborn Farm Equipment*  
**BIRMINGHAM, MICHIGAN**